

# SELF STUDY REPORT (2018-2023)



Submitted to

National Agricultural Education Accreditation Board  
Indian Council of Agricultural Research, New Delhi



**College of Agriculture, Parbhani**  
**Vasantrao Naik Marathwada Krishi Vidyapeeth**  
**Parbhani - 431402 (MS) INDIA**

## **Foreword**

The Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani is one of the renowned Agricultural Universities in India. The College of Agriculture, Parbhani is the first oldest constituent college of the university which was established in 1956. Initially, it was affiliated to Dr. Punjabrao Deshmukh Krishi Vidyapeeth, Akola. In 1972, after the formation of Marathwada Krishi Vidyapeeth, Parbhani, the college was transferred to this University. The college has mandate of teaching both UG and PG and Ph.D. courses, research and extension related activities.

The Indian Council of Agricultural Research, New Delhi promotes and coordinates higher agricultural education in India. Accreditation is a process of assuring an acceptable institutional quality and it is a tool for improving educational standards. The process intends to improve and sustain the quality and relevance of education. It improves transferability and marketability of students nationally and internationally through the entrepreneurship qualities developed among the agriculture graduates.

The College of Agriculture, Parbhani is very keen to be accredited for which this self-study report has been prepared as per the guidelines given in the “Hands on Training Manual on Self Study for Accreditation of Academic Institutions and Programmes” published by Accreditation Board Secretariat, Education Division, ICAR, New Delhi. The preparation of this report was a difficult task and the academic staff performed the job very critically with pain taking efforts to bring out this Self Study Report (SSR). Special efforts taken up by Dean, College of Agriculture, Parbhani and his team are highly appreciated. I am pleased to submit the Self Study Report to the Accreditation Board for its official approval.

**Director of Instruction & Dean**  
**F/A, VNMKV, Parbhani**

## **Preface**

India is agricultural based country where 75 per cent peoples are involved in farming and forms the backbone of Indian economy. Initially only two Agricultural Colleges were established in Maharashtra before the Independence. Taking into consideration the demand of Marathwada region of Maharashtra state, the College of Agriculture, Parbhani was established in 1956 with the mandate of teaching, research and extension education. This helped to develop the knowledge and skills of the students undergoing B.Sc. (Agriculture) undergraduate programme. The College has started Post Graduate programme leading to M. Sc. (Agri.) in 1972 and Ph.D. in 1978. At present, M.Sc. (Agri.) programme is implemented in ten disciplines and Ph.D. in nine disciplines. The College of Agriculture, Parbhani has well developed infrastructural facilities like lecture halls, well equipped laboratories, Boys' and Girls' Hostels, Gymnasium, Playground, Central Library etc. The common syllabus on all India basis has been implemented for B. Sc. (Agri.) as per directives of V Deans' committee recommendations and recently from this year as per VI<sup>th</sup> Deans recommendations. The human resource is being developed by sending faculty members to Summer/Winter schools / Short Courses and Workshops to update their knowledge and skills. Similarly, faculty is allowed to take part in Seminars, Conferences, Symposia at National and International levels to have exposure in scientific community. The graduates of this college have been successful in achieving the higher posts in Central and State Government's administration, State Departments of Agriculture, Revenue, Home, Rural Development, Co-operation, Agricultural Universities, Research Stations, Non-Governmental Organizations, Corporate Sector, Co-operative Sector, Banking and Marketing Organizations. Some of the graduates are also engaged in progressive farming and have established their own agro based enterprises. Some of the graduates have achieved highest proficiency in Hi-tech Agriculture also. Even with these achievements, there are shortcoming in the education system which are being rectified now a days. This report gives a stock of our strength and weakness required for quality education. I am very happy to submit Self Study Report of last five years for its acceptance and accreditation.

**Associate Dean & Principal  
College of Agriculture  
VNMKV, Parbhani**

## Contents

Sr. No.	Particulars	Page No.
<b>6.4</b>	<b>Self-Study Report for the programme (UG)</b>	<b>01</b>
<b>6.4.1</b>	Brief history of the Degree Programme	01
<b>6.4.2</b>	Faculty Strength	08
<b>6.4.3</b>	Technical and Supporting Staff	09
<b>6.4.4</b>	Classroom and Laboratories	10
<b>6.4.5</b>	Conduct of Practical's and Hands on Training	22
<b>6.4.6</b>	Intake capacity and number of qualified faculty	30
<b>6.4.7</b>	Feedback of Stakeholders (Students, Parents, industries, employers)	30
<b>6.4.8</b>	Students intake and attrition in the programme for last five years	32
<b>6.4.9</b>	ICT application in curricula delivery	32
<b>6.4.10</b>	Information pertaining to 6.4.1 to 6.4.9	33
<b>6.4.11</b>	Data presented in 6.4 liable for verification	33
<b>6.4.12</b>	Certificate	33
	Appendix – I B.Sc. Students Feedback Form	34
	Appendix – II Farmers Feedback Form	39
<b>6.4</b>	<b>Self-Study Report for the programme PG (M.Sc. /Ph.D.)</b>	<b>43</b>
	Department of Agronomy M.Sc. (Agri.)	43
	Appendix – I M.Sc. Students Feedback Form	57
	Department of Agronomy Ph.D. (Agri.)	63
	Appendix – I Ph.D. Students Feedback Form	78
	Department of Genetics and Plant Breeding M.Sc. (Agri.)	82
	Appendix – I M.Sc. Students Feedback Form	99
	Department of Genetics and Plant Breeding Ph.D. (Agri.)	104
	Appendix – I Ph.D. Students Feedback Form	120
	Department of Plant Physiology M.Sc. (Agri.)	125
	Appendix – I M.Sc. Students Feedback Form	140
	Department of Plant Physiology Ph.D. (Agri.)	146
	Appendix – I Ph.D. Students Feedback Form	160
	Department of Seed Science and Technology M.Sc. (Agri.)	162
	Appendix – I M.Sc. Students Feedback Form	177
	Department of Seed Science and Technology Ph.D. (Agri.)	182
	Appendix – I Ph.D. Students Feedback Form	198
	Department of Animal Husbandry and Dairy Science M.Sc. (Agri.)	200
	Appendix – I M.Sc. Students Feedback Form	215
	Department of Animal Husbandry and Dairy Science M.Sc. (Agri.)	218
	Appendix – I Ph.D. Students Feedback Form	233



	Department of Agricultural Economics M.Sc. (Agri.)	236
	Appendix – I M.Sc. Students Feedback Form	245
	Department of Agricultural Economics Ph.D. (Agri.)	246
	Appendix – I Ph.D. Students Feedback Form	255
	Department of Agril. Meteorology M.Sc. (Agri.)	258
	Appendix – I M.Sc. Students Feedback Form	271
	Department of Agril. Meteorology Ph.D. (Agri.)	275
	Appendix – I Ph.D. Students Feedback Form	286
	Department of Agricultural Entomology M.Sc. (Agri.)	289
	Appendix – I M.Sc. Students Feedback Form	303
	Department of Agricultural Entomology Ph.D. (Agri.)	307
	Appendix – I Ph.D. Students Feedback Form	323
	Department of Agril. Extension Education M.Sc. (Agri.)	326
	Appendix – I M.Sc. Students Feedback Form	340
	Department of Agril. Extension Education Ph.D. (Agri.)	343
	Appendix – I Ph.D. Students Feedback Form	357
	Department of Fruit Science M.Sc. (Agri.)	360
	Appendix – I M.Sc. Students Feedback Form	375
	Department of Fruit Science Ph.D. (Agri.)	376
	Appendix – I Ph.D. Students Feedback Form	391
	Department of Vegetable Science M.Sc. (Agri.)	393
	Appendix – I M.Sc. Students Feedback Form	409
	Department of Vegetable Science Ph.D. (Agri.)	411
	Appendix – I Ph.D. Students Feedback Form	426
	Department of Floriculture and Landscaping M.Sc. (Agri.)	427
	Appendix – I M.Sc. Students Feedback Form	442
	Department of Floriculture and Landscaping Ph.D. (Agri.)	443
	Appendix – I Ph.D. Students Feedback Form	457
	Department of Plant Pathology M.Sc. (Agri.)	458
	Appendix – I M.Sc. Students Feedback Form	474
	Department of Plant Pathology Ph.D. (Agri.)	477
	Appendix – I Ph.D. Students Feedback Form	491
	Department of Soil Science M.Sc. (Agri.)	494
	Appendix – I M.Sc. Students Feedback Form	514
	Department of Soil Science Ph.D. (Agri.)	518
	Appendix – I Ph.D. Students Feedback Form	534
6.5	<b>Self-study report for the College</b>	<b>537-684</b>



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### 6.4 Self-study report for the programme B.Sc. (Hons.) Agri.

#### 6.4.1 Brief history of degree programme

##### 1. Year of start

The College of Agriculture, Parbhani was established in the year 1956. Initially the college was under Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola. The University was established in the year 1972 since then college is running under the university supervision as a constituent college.

##### 2. Objectives

1. To educate, train and generate skillful human resource in the field of Agriculture.
2. To provide rural entrepreneurship awareness and exposure to corporate sector through student READY programme.
3. To develop quality professional human resource, competent and confident to start own agri-business
4. To carry out need based as well as applied research in agriculture and to transfer the agricultural technologies developed by the university to the farmers of the region.
5. To develop the technologies for agro-based small scale industries.

##### 3. Accomplishments

###### 1. Teaching:

The College of Agriculture, Parbhani was established in 1956, offers B.Sc. (Agri.) / B.Sc. (Hons.) agriculture degree. Agriculture is multi-disciplinary field to provide comprehensive scientific knowledge to tackle the issues in agriculture. The success of agricultural education is visualized from the success of agricultural graduates in public and private sector. The graduates of this college are serving in education, research, extension via various educational institutes, research stations, KVKs and government administrative services.

During last five years entrepreneurship skills were developed in 1067 students through ELP Programme and student READY (RAWES& AIA and ELM) and as per the placement record 465 students were placed for PG education in various institutes at National & International level and in various Sectors including Government, Private multinational companies, Banking Institutions and Own Business Firms.





**Table: Details of Scholarships /Fellowships (DBT Cashless) received by the Students during last five years is given in following (Rs. In Lakh)**

Sr. No.	Name of the Scholarship/ Fellowship	2018-19		2019-20		2020-21		2021-22		2022-23	
		No. of students	Amount (Rs.)	No. of students	Amount (Rs.)	No. of students	Amount (Rs.)	No. of students	Amount (Rs.)	No. of Students	Amount (Rs.)
1	GOI Scholarship (UG)	436	65.32	421	72.96	478	43.66	525	81.96	310	--
2	Open Girls Fees (UG)	35	04.20	45	05.40	40	04.80	45	05.40	23	02.76
3	Central Sector Scholarship / Minority	66	06.60	72	07.20	42	04.20	36	03.60	23	02.30
4	National Talent Scholarship (UG)	31	09.30	43	13.07	45	15.69	67	22.21	100	14.54
5	Merit Cum Means Scholarship	02	00.11	02	00.11	--	--	--	--	--	--
6	Handicapped Scholarship	06	00.33	04	00.22	06	00.33	07	00.38	05	00.27
7	Jr. Res. Fellow./ Sr. Res. Fellowship	--	--	--	--	--	--	--	--	--	--
8	OBC National Fellowship	--	--	--	--	--	--	--	--	--	--
9	Foreign Fellowship (UG)	--	--	--	--	--	--	--	--	--	--
	<b>Total</b>	<b>576</b>	<b>88.66</b>	<b>542</b>	<b>93.57</b>	<b>571</b>	<b>63.89</b>	<b>635</b>	<b>10.81</b>	<b>438</b>	<b>17.11</b>

During last five years, Scholarship/Fellowship benefits were extended to 2762 students. The amount disbursed is Rs.364.40/- towards Scholarships and Fellowships. All the Scholarship and Fellowship benefits are directly transferred to the students account through online mode. From academic year 2016-17 online payment gateway is initiated in the college of Agriculture, Parbhani.

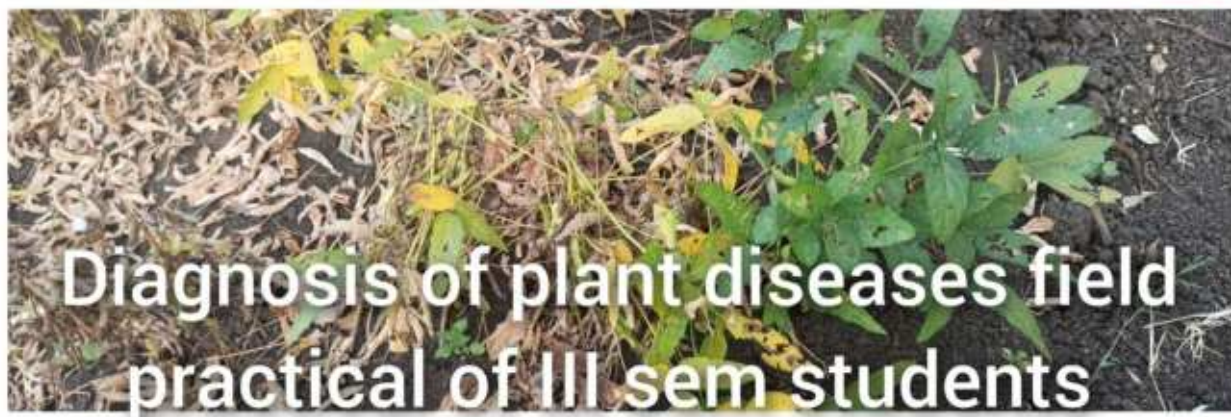


### 2. Research:

Faculty members undertake research projects, the research findings are presented in Agricultural Research Review Committee (AGRESCO) meeting every year. Through such results fruitful recommendations are drawn and published for the benefit of farming community.

1. During last five years Revenue receipts of the Biomix (A unique innovative Bio control agent) Consortia sold to farmers in the region amounting Rs. 15.34 Crores.
2. More than four thousand Soil Health cards were distributed to the farmers during last five years.
3. Two trainings were organized on soil, water and plant analysis.
4. Ten National level trainings were organized for academic and research staff members.
5. Four Adhoc Research Projects in collaboration with International and National Institutes were completed.
6. Four Adhoc Research projects in collaboration with international and national institutes are in progress.
7. Contribution of teaching staff in release of following nine (09) varieties / hybrids.
  - State level release of *Kharif* Sorghum variety Parbhani Shakti (PVK 1009)(Joint AGRESCO, 2018)
  - State level release of Cotton variety PA-740 (Joint AGRESCO, 2018)
  - State level release of Tamarind variety Shivai (Joint AGRESCO, 2018)
  - State level release of *Rabi* sorghum variety Parbhani Super Moti (SPV 2407) (Joint AGRESCO, 2019)
  - State level release of pigeon pea variety BDN2013-41 (Joint AGRESCO, 2020)
  - State level release of Cotton variety NHH44BG-2 (Joint AGRESCO, 2020)
  - State level release of *Rabi* sorghum variety Parbhani Vasant (PVRSG-101)(Joint AGRESCO, 2021)
  - State level release of Soybean variety MAUS-725 (Joint AGRESCO, 2021)
  - State level release of Safflower variety PBNS-154 (Joint AGRESCO, 2021)
8. Contribution of teaching staff in the technological recommendations-78.
9. One National level, four Zonal seminars were organized by various departments of the College.







### **3. Extension Education:**

Based on the recommendations of the University, college faculties are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are made to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstrations.

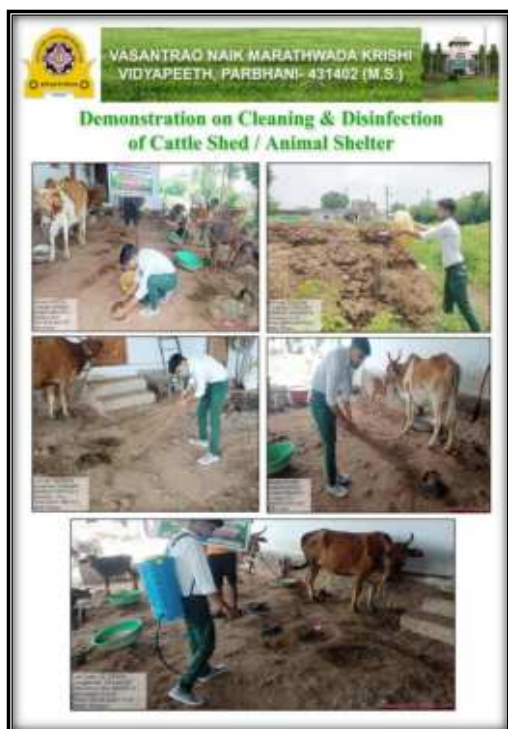
Heads of the departments are actively involved and act as member of extension council. Faculty members are actively engaged as SMS in shetkari melawa and gramini krishi mosam seva, an agro advisory services to the farmers. More than 353 shetkari melawas were organized during RAWE and AIA Programme during last five years.



**Tree plantation programme in presence of Hon. District Magistrate  
Mrs. Aanchal Goyal (RAWE & AIA)**



**Shetkari Melawa conducted at post Jamb, Tq. Dist. Parbhani**



Demonstrations carried out by RAW& AIA students



**6.4.2 \*Details of Faculty Strength (2018-19 to 2022-23)**

The Details of Faculty Strength of academic staff is given in following table

**Details of Faculty Strength (2018-19 to 2022-23)**

<b>Sr. No</b>	<b>Year</b>	<b>Sanctioned faculty</b>	<b>Faculty in place</b>	<b>Vacant position</b>	<b>Faculty recommended by the ICAR for 60 intake (college has 210 intake)</b>	<b>Deviation**</b>
1	2018-19	AD&P	01	00	01	<b>100</b>
		Head	07	03	-	<b>30</b>
		Professor	03	07	03	<b>100</b>
		Associate Professor	25	27	08	<b>312.5</b>
		Assistant Professor	37	20	34	<b>108.82</b>
2	2019-20	AD&P	01	00	01	<b>100</b>
		Head	10	00	-	<b>00</b>
		Professor	07	03	03	<b>233.33</b>
		Associate Professor	22	30	08	<b>275</b>
		Assistant Professor	40	17	34	<b>117.65</b>
3	2020-21	AD&P	01	00	01	<b>100</b>
		Head	08	02	-	<b>20</b>
		Professor	08	02	03	<b>266.67</b>
		Associate Professor	20	32	08	<b>250</b>
		Assistant Professor	41	16	34	<b>120.59</b>
		Assistant Professor (Adhoc)	11	11	-	<b>50</b>
4	2021-22	AD&P	01	00	01	<b>100</b>
		Head	07	03	-	<b>30</b>
		Professor	08	02	03	<b>266.67</b>
		Associate Professor	25	27	08	<b>312.5</b>
		Assistant Professor	34	23	34	<b>100</b>
		Assistant Professor (Adhoc)	11	11	-	<b>50</b>
5	2022-23	AD&P	00	01	01	<b>00</b>
		Head	06	04	-	<b>40</b>
		Professor	09	01	03	<b>300</b>
		Associate Professor	27	25	08	<b>337.5</b>
		Assistant Professor	38	19	34	<b>111.76</b>
		Assistant Professor (Adhoc)	11	11	-	<b>50</b>

**\* The faculties mentioned above are allotted for B.Sc., M.Sc. & Ph.D. Degree programmes**

**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non-teaching staff of this college is given in following table.

**Technical and Supporting staff (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Year</b>	<b>Sanctioned Staff*</b>	<b>Staff in place</b>	<b>Vacant position</b>	<b>Faculty recommended by the ICAR for 60 intake (college has 210 intake)</b>	<b>Deviation**</b>
1	2018-19	Technical (SRA / JRA/ Agril. Asstt.)	42	30	11	381.82
2		Supporting including farm and field workers	221	152	32	690.62
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	48	24	11	436.36
2		Supporting including farm and field workers	185	188	32	578.12
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	50	22	11	454.54
2		Supporting including farm and field workers	142	231	32	443.75
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	48	21	11	436.36
2		Supporting including farm and field workers	142	231	32	443.75
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	53	19	11	481.82
2		Supporting including farm and field workers	126	247	32	393.75

**\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) &Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.**

**6.4.4 Class room and Laboratories (2018-19 to 2022-23)**

The college provides very good educational atmosphere to the students with well-equipped classrooms. The college of agriculture has thirty-two class rooms at college and department level out of which fourteen class rooms are supported with smart teaching facilities

**Class room and Laboratories (2018-19 to 2022-23)**
**1. Classrooms**

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
Classrooms at College of Agriculture, Parbhani			
1	Lecture Hall No. 1	100	Sufficient for B.Sc. (Hons.) Agri. Students
2	Lecture Hall No. 2	100	
3	Lecture Hall No. 3	100	
4	Lecture Hall No. 4	100	
5	Lecture Hall No. 5	100	
6	Lecture Hall No. 6	100	
Department of Agronomy			
1	Classroom No. 1	40	Sufficient for B.Sc. (Hons.) Agri. Students
2	Classroom No. 2	40	
3	Classroom No. 3	40	
Department of Genetics and Plant Breeding, Plant Physiology & Seed Science Technology			
1	Classroom No. 1	20	Sufficient for B.Sc. (Hons.) Agri. Students
2	Classroom No. 2	40	
3	Classroom No. 3	40	
4	Classroom No. 4	40	
5	Classroom No. 5	40	
6	Classroom No. 6	40	
7	Seminar Hall	30	
Department of Animal Husbandry& Dairy Science			
3	Classroom No. 1	40	Sufficient for B.Sc. (Hons.) Agri. Students
4	Classroom No. 2	40	
Department of Agril. Economics			
2	Classroom No. 1	40	Sufficient for B.Sc. (Hons.) Agri. Students
	Classroom No. 2	40	
Department of Agril. Meteorology			
1	Classroom No. 1	40	Sufficient for B.Sc. (Hons.) Agri. Students
Department of Agril. Entomology			
1	Classroom No.1	40	Sufficient for B.Sc. (Hons.) Agri. Students
Department of Agril. Engineering			
1	Classroom No.1	40	Sufficient for B.Sc. (Hons.) Agri. Students
2	Classroom No.2	40	
3	Smart e-Classroom	40	Equipped with LCD projector, internet facilities, interactive board, podium, mike system.
Department of Extension Education			
1	Classroom No. 1	50	Sufficient for B.Sc. (Hons.) Agri. Students
2	Classroom No. 2	50	
Department of Horticulture			
1	Classroom No. 1	80	Sufficient for B.Sc. (Hons.) Agri. Students
2	Classroom No. 2	40	Sufficient for B.Sc. (Hons.) Agri. Students
Department of Plant Pathology			
1	Classroom No. 1	40	Sufficient for B.Sc. (Hons.) Agri. Students
2	Classroom No. 2	40	
3	Classroom No. 3	40	
Department of Soil Science &Agril. Chemistry			
1	Classroom No. 1	40	Sufficient for B.Sc. (Hons.) Agri. Students
2	Classroom No. 2	40	



Class room equipped with LCD facility and Internet connectivity



Laboratory	List of major equipment		Capacity/ Space	Remark
Department of Agronomy				
Laboratory UG - 1	1	Top pan balance	40 students (120 mt.sq.)	Sufficient for U.G students  Need special ICAR Fund for additional equipment
	2	Weight balance		
	3	Soil moisture box		
	4	Post hole augur		
	5	Soil screw auger		
	6	Gas cylinder		
	7	Crop Seed museum		
	8	Weed museum		
	9	Mixer		
	10	Refrigerator		
	11	Mine rotary flask		
	12	Rotary shaker		
	13	Electronic wing scale		
	14	Digital pH meter & EC meter		
	15	Projector & desktop		
	16	Hot air oven		
	17	Double ring infiltrometer		
Department of Genetics and Plant Breeding, Plant Physiology & Seed Science Technology				
Laboratory UG- 1 Laboratory UG-2	1	Automatic/conveyer belt Leaf area meter	40 Students  12M X8 M Each Laboratory	Need special ICAR Fund for additional equipment
	2	Root Analyzer System		
	3	Gel documentation system		
	4	Soil Moisture Meter Model		
	5	Chlorophyll Meter Model SPAD 502		
	6	Digital Flame Photometer		
	7	Seed Germinator		
	8	Compound Microscope		
	9	Refrigerated centrifuge -8 <sup>0</sup> C		
	10	Deep freezer 265 Ltr. -20 <sup>0</sup> C		
	11	pH Meter		
	12	Leaf area meter (Portable )		
	13	Lilliput Cotton Ginning Machine		
	14	BOD Incubator		
	15	Conductivity Meter		
	16	Spectrophotometer		
	17	Digital oven		
	18	Auto Clave		
	19	Soxhlet Apparatus		
	20	N Analyzer		
	21	Distillation Unit		
Department of Animal Husbandry & Dairy Science				
Laboratory UG - 1	1	Chaff cutter	40 students (100 mt. Sq.)	
	2	Lactometer		
	3	Analytical balance		
	4	Hot air oven		
	5	Milk can		
	6	Feeder		
	7	AI vagina		
	8	Castrator		

	9	Tag applicator		
	10	Balance 100 kg		
	11	Richmond scale		
	12	Desiccator		
	13	Cream separator		
	14	Gerber centrifuge machine		
Experiential Learning Programme Laboratory	24	Bulk Milk Cooler (200 lit. capacity)	40 students (4000 Sq.ft.)	
	25	Khoa making machine		
	26	Khoa polishing machine		
	27	Milk boiler		
	28	Ice cream freezer/churner		
	29	Milk homogenizer		
	30	Ageing vat		
	31	Paneer press machine		
	32	Pneumatic paneer press machine		
	33	Ute-tic type Deep freezer (500 lit.)		
	34	Ute-tic type Deep freezer (500 lit.)		
	35	Shrikhand preparation machine		
	36	Semi-automatic milk packaging machine		
Department of Agril. Economics				
Laboratory UG -1	1	LCD projector	40 students (100 mt. Sq.)	Sufficient for U.G students
Department of Agril. Meteorology				
Agro-meteorological observatory	1	Surface Agro-meteorological instruments	40 students (1980 mt. Sq.)	Sufficient for U.G students
One Computer Lab	1	Five Computer in lab with internet	10 students (10 mt. Sq.)	
Field laboratory	1	Line quantum sensors	(100 mt. Sq.)	
	2	Net Radiometer		
	3	Leaf Area Meter		
	4	Infra-red thermometer,		
	5	Hot air oven,		
	6	Automatic weather station		
	7	Lux meter		
8	Whirling Psychrometer			
Department of Agril. Entomology				
Laboratory UG-1	1	Insect Boxes	40 (80 mt. Sq.)	Sufficient for U.G students
	2	Insect Collecting Net		
	3	Honey Extractor		
	4	Bee Hive		
	5	Other apiculture Instruments		
	6	Compound Microscope		
Laboratory UG-2	1	Dissection Material	40 (80 mt. Sq.)	Sufficient for U.G students
	2	Binocular Microscope		
	3	Insect Boxes		
	4	Insect Collecting Net		
Laboratory UG-3	1	Laminar Air Flow	40 (80 mt. Sq.)	
	2	Autoclave		
	3	BOD		

	4	Centrifuge		
	5	Hot Air Oven		
	6	Refrigerator		
	7	Aerosol (Mist)		
	8	Distil Water Unit		
	9	Rotary Shaker		
<b>Department of Agril. Engineering</b>				
<b>Computer Laboratory</b>	1	Computer and Wi-fi facility	40 (76 mt. Sq.)	
<b>Farm Power and Machinery laboratory</b>	1	Actual components of engine. Cut Models:	40 (100 mt. Sq.)	
	2	<b>Cut Models:</b> Two stroke and four stroke cycle engines,		
	3	Five Cylinder IC engine,		
	4	Clutch system,		
	5	Gear box		
	6	Steering system,		
	7	Brake system,		
	8	Differential of tractor		
	9	<b>C. Implements:</b> Tractor drawn M.B.Plough – Two bottom & Three bottom,		
	10	Bullock drawn M.B.Plough, One Way plough,		
	11	Tractor drawn Disc plough		
	12	Blade harrow		
	13	Disc harrow		
	14	Spring tyne harrow		
	15	Peg tooth harrow		
	16	Cultivator		
	17	Bullock drawn seed cum fertilizer drill		
	18	Tractor drawn seed cum fertilizer drill		
	19	Furrower		
	20	Foot sprayer		
	21	Knapsack sprayer		
	22	<b>Tools used for Inter-culture:</b> Khurpi		
	23	Weeding hooks,		
	24	Hand hoes,		
	25	Animal drawn hoe,		
	26	Three tyne Grubber		
<b>Soil water conservation including Surveying laboratory</b>	1	Chain: Metric Surveying Chains - 20 meter or 30 met	40 (36 mt. Sq.)	
	2	Non Metric Surveying Chains : i) Gunter's Chain ii) Revenue Chain iii) Engineer's Chain		
	3	Arrows		
	4	Tapes: Cloth or Linen Tape, Woven Metallic Tape, Metric Steel Tape, Synthetic Tape		
	5	Ranging rods		
	6	Ranging poles		
	7	Offset rods		
	8	Plumb bobs		



	9	Cross-Staffs : Open cross staff, French Cross staff, Adjustable Cross staff		
	10	Plane tables with accessories		
	11	Levels: Dumpy levels, Quick setting levels		
	12	Levelling Staffs		
	13	Optical Square		
	14	Line Ranger		
	15	Prismatic Compass		
Green house and Secondary Agriculturelaboratory	1	A. Instruments: Universal Moisture meter,	40 (36 mt. Sq.)	
	2	Digital weigh balance,		
	3	Hot Air Oven		
	4	B. Models: Horizontal Belt Conveyor		
	5	Screw Conveyor		
	6	Bucket Elevator		
	7	Components of pipe fittings		
	8	Screen filter		
	9	Water pump		
	10	Impellers		
Department of Agril. Extension Education				
College Extension Block (04 Villages)	1	LCD projectors (02)	50	Related with the social science in all we have selected 04 villages under college extension block which acts as field laboratory
	2	K-Yan (01)		
	3	Camera (01)		
	4	Public Address System (PAS) (01)		
	5	Models (15)		
	6	Digital Charts (15)		
	7	Display board (01)		
	8	10 terminals line with main server (LAN)		
Department of Horticulture				
Laboratory UG	1	Slides/ Cover Slips	40 (60 mt. Sq.)	
	2	Electronic Moisture Meter		
	3	Hygrometer		
	4	Electronic Weighing Balance (1 gm Capacity)		
	5	Pan Balance (1 kg & 10 kg Capacity each)		
	6	Hot Air Oven		
	7	BOD Incubator		
	8	Centrifuge Machine		
	9	Distillation Assembly		
	10	Hand Refractometer		
	11	Digital Refractometer		
	12	Microwave Oven		
	13	Fruit Crusher		
	14	Refrigerator		
	15	Deep Freezer		
	16	Grinding and Mixing Machine		
	17	Pulper		
	18	Fruit Penetrometer		
	19	Chlorophyll Content Meter (SPAD Meter		
	20	Oven		
	21	Grafting & Budding Knife		



	22	Secateurs		
	23	Pruning Saw		
	24	Loppers		
	25	Water Bath		
	26	Muffle furnace		
	27	Spectrophotometer		
	28	Sieves		
	29	Glass container		
	30	Digital Leaf Area Meter (with digital display)		
	31	Microscope		
Department of Plant Pathology				
Mushroom Production Unit	1	Vertical Autoclave,	40 (60 mt. Sq.)	Sufficient for U.G student
	2	Horizontal Autoclave,		
	3	Laminar Air Flow,		
	4	Hot air oven,		
	5	BOD Incubator,		
	6	pH meter,		
	7	Refrigerator		
Laboratory UG	1	Vertical Autoclave,	40 (60 mt. Sq.)	
	2	Laminar Air Flow,		
	3	Water distillation unit ,		
	4	Hot air oven,		
	5	BOD Incubator,		
	6	pH meter,		
	7	Refrigerator,		
	8	LPG Cylinder with Burner		
	9	BOD Incubator,		
	10	pH meter,		
	11	Refrigerator		
	12	PCR		
	13	ELISA- washer, reader, printer		
	14	Gel Electrophoresis unit,		
	15	Double Beam UV Spectrophotometer,		
	16	Refrigerated Centrifuge (24,000 rpm),		
	17	pH meter,		
	18	Ice flecking machine,		
	19	Microwave oven		
	20	Deep Freeze		
Department of Soil Science & Agril. Chemistry				
UG Lab-1	1	Single Distillation unit,	40 (240 mt. Sq.)	Sufficient for U.G student
	2	Water Bath,		
	3	Electrical Weighing Balance,		
	4	EC Meter,		
	2	pH meter		
	3	Distillation Unit,		
	4	Hot Air Oven		
UG Lab-2	1	Single Distillation unit,,	40 (240 mt. Sq.)	Sufficient for U.G student
	2	Water Bath,		
	3	Electrical Weighing Balance,		
	4	pH Meter,		

	5	Flame photometer,		
	6	Spectrophotometer,		
	7	Distillation Unit,		
<b>Distillation Unit and Digestion Chamber</b>	1	Kjeldhal distillation unit,	10 (60 mt. Sq.)	Sufficient for U.G student
	2	Hot Plate		
	3	Plant digestion block		
<b>ELU Unit</b>	1	Single Distillation unit,,	40 (240 mt. Sq.)	Sufficient for U.G student
	2	Water Bath,		
	3	Electrical Weighing Balance,		
	4	pH Meter,		
	5	Flame photometer,		
	6	Spectrophotometer,		
	7	Oven		
	8	Hot Plat		
	9	Mechanical Shaker		
	10	EC Meter		
	11	Kjeldhal distillation unit,		



**Computer Lab at College of Agriculture, Parbhani**







**Agril. Chemistry Laboratory at College of Agriculture, Parbhani**



**Agricultural Meteorology Practical**



**Sericulture Practical**

**1. Farm facilities**

The college has 114.17 ha land and crop cafeteria for PG and Ph.D. research work, for conduct of UG and PG practicals, seed production purpose and for ELP units. The various structures and irrigation facilities required for the purpose are available on the farm which includes green house structures, shade nets, wells, tube wells etc. The most important instruments, equipments available on the college farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available. Composting unit as well as vermi-compost units are available to utilize farm waste material which is used for PG and Ph.D. research trials conducted on instructional farms.

**Total Farm area: 114.17 ha**

**Irrigated Land: 30.00 ha**

**Facilities available on instruction farm for UG practicals**

Area (ha)	Irrigation facilities	Cafeteria/ Demonstration
<b>Department of Agronomy</b>		
42.23 ha.	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 wells and 2 bore wells.	<ul style="list-style-type: none"><li>• Crop cafeteria for <i>kharif</i> and <i>rabi</i> crops &amp; their varieties every year in both seasons.</li><li>• About 13 M.Sc. (Agri.) &amp; 03 Ph. D. (Agri.) experiments of students are conducted every year</li></ul>
<b>Department of Genetics and Plant Breeding, Plant Physiology &amp; Seed Science Technology</b>		
02ha.	Tube well - 01 Sprinkler irrigation set - 01 Sprayers – 04, Shade Net	<ul style="list-style-type: none"><li>• ELP, Crop Cafeteria for <i>Kharif</i> and <i>Rabi</i> crop</li></ul>
<b>Department of Animal Husbandry &amp; Dairy Science</b>		
13.90 ha.	02 Well 02 Tube Well	<ul style="list-style-type: none"><li>• Seed and Fodder Production</li></ul>
<b>Department of Agril. Economics</b>		
NA	NA	NA
<b>Department of Agril. Meteorology</b>		
3.22 ha.	2 Bore Wells	<ul style="list-style-type: none"><li>• 10 Demonstrations for B.Sc. (Hons.) Agri. students' practicals.</li></ul>
<b>Department of Agril. Entomology</b>		
2.51 ha.	Sprinkler and Drip irrigation facilities are made available to the students. The irrigation resources are: 2 bore wells.	<ul style="list-style-type: none"><li>• About 13 &amp; 3 experiments of M.Sc. (Agri.) &amp; Ph. D. (Agri.) students are conducted every year respectively crop cafeteria for the <i>kharif</i> and <i>rabi</i> crop</li></ul>
<b>Department of Agril. Engineering</b>		
1.064 ha	Sprinkler and Drip irrigation facilities are made available to the students.	<ul style="list-style-type: none"><li>• Demonstration for B.Sc. (Hons. ) Agri. students' practicals on micro irrigations, Surveying and levelling, workshop for UG students</li></ul>
<b>Department of Agril. Extension Education</b>		
NA	NA	NA
<b>Department of Horticulture</b>		
28.32 ha.	Well 2, Tube Well 2	<ul style="list-style-type: none"><li>• Area Under Fruit Crop 8.15 ha, Garden area 0.60 ha, Area under PG Experiment 2.0 ha, Area under Polyhouse and Shade net 1.0 ha, Area Under ELM 0.5 ha.</li></ul>



Department of Plant Pathology		
NA	NA	NA
Department of Soil Science & Agril. Chemistry		
4.2 ha.	Tube well 2	<ul style="list-style-type: none"><li>• Crop Cafeteria/ Demonstration for B.Sc.(Agri.) students practical's on soil analysis and nutrient management</li></ul>



Department of Agronomy: Revenue receipts of the seed production and general crops				
Sr. No.	Year	Receipt Received Rs.		Total Receipts
		Seed Production	Grain Production	
1	2018-19	17,71,750/- (205.1 qtl.)	--	17,71,750/-
2	2019-20	16,05,021/- (146.14 qtl.)	--	16,05,021/-
		4,27,000/- (Product Testing)	--	4,27,000/-
3	2020-21	34,45,063/-(263.28 qtl.)	--	34,45,063/-
4	2021-22	18,79,243/-(195.15 qtl.)	12,510/-	18,91,753/-
5	2022-23	18,29,700/-(117 qtl.)	82,088/-	19,11,788/-

Department of Agril. Entomology : Revenue receipts generated by various sources (Product Testing, Sale of Bio-Control Products & Farm produce etc)				
Sr. No.	Year	Receipt Received Rs.(Lakh)		Total
		Product Testing	Bio-Control Production	
1.	2018-19	1.65	0.13	1.78
2.	2019-20	2.81	0.62	3.43
3.	2020-21	--	1.16	1.16
4.	2021-22	6.12	5.96	12.08
5.	2022-23	--	0.14	0.14
Total				18.59

Revenue receipts from selling of Milk/Milk products/Livestock Auction/FYM & Others			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
1	2018-19	14.04	14.04
2	2019-20	11.50	11.50
3	2020-21	16.61	16.61
4	2021-22	26.93	26.93
5	2022-23	18.41	18.41
Total		71.20	87.49

Department of Horticulture: Revenue receipts of the selling of Fruit/Vegetable/ Flowers			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
1.	2018-19	0.66	0.66
2	2019-20	0.32	0.32
3	2020-21	0.54	0.54
4	2021-22	0.70	0.70
5	2022-23	0.10	0.10
Total		2.32	2.32

Department of Plant Pathology: Revenue receipts of the Bio-mix Consortia and PEQ				
Sr. No.	Year	Receipt Received Rs.		Total Receipts
		Bio Mix	PEQ	
1	2018-19	141.42	07.80	149.22
2	2019-20	192.06	09.90	201.96
3	2020-21	293.66	12.90	306.56
4	2021-22	416.92	186.00	602.92
5	2022-23	257.99	160.00	417.99
Total				1678.65

Department of Soil Science & Agril. Chemistry: Revenue receipts of the Soil Testing, Training, Biofertilizer, Vermi-compost			
Sr. No.	Year	Amount of Research contingency (In Lakh)	Whether it meet students demand
1	2018-19	15.28	Yes
2	2019-20	13.81	
3	2020-21	15.64	
4	2021-22	28.91	
5	2022-23	14.95	
	<b>Total</b>	<b>88.59</b>	

## 2. Theory and practical batches for the degree programme

Details of Batches for Monsoon and summer are mentioned in following table for Conducting Theory and Practical classes of various departments in the college

### Details of Batches of Theory and Practical

B.Sc. (Hons.) Agri.							
Sr. No.	Credit	Group-I		Group-II		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01 (70 Students)	02 (30 Students each)	01 (70 Students)	02 (30 Students each)	2	4
2	3 (2+1)	02 (70 Students each)	02 (30 Students each)	02 (70 Students each)	02 (30 Students each)	2	4

### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

Students practicals are conducted in a way that allowed students to get as involved as possible to increase their knowledge and ability and skilled them that can only be learn through hands on practice. Practical's are conducted as per course of lesson plan in accordance with Fifts Dean's committee.

Students are practically trained in varietal release, seed production, testing and studies of vital metabolic activity of plant in Agril. Botany, Essential crop production technique in agronomy, soil water and plant analysis technique in soil science and agricultural chemistry, insect studies ,nature of damage and control damage of pests in entomology, disease causing organism studies ,nature of damage and control measure of diseases in plant pathology, basic and applied innovative agricultural extension technology in extension education, agricultural credits system and minimum support price studies in agricultural economics, cattle breed ,milk and milk product in animal husbandry and dairy science, pomology vegetable and post-harvest studies in horticulture.

There is an interdisciplinary approach in teaching undergraduate courses, when students undergo RAWE programme in VII semester and ELP in the VIII, a team of specialists which includes Agronomist, Soil Scientists, Pathologists, Entomologists, Horticulturists, Agril. Engineers and Economists remains collectively in touch with the students. They meet once in a month and have

discussion by guiding them and solving their problems in the particular subject or field. Thus there is a collective and integrated inter disciplinary approach in teaching.



**ELM Mushroom technology**



**ELM Sericulture**



**Visit of Hon. Agril. Minister & Hon. VC**

### **B.Sc. (Hons.) Agri. Programme Semester Wise Courses**

Semester wise courses as per 5<sup>th</sup> Deans Committee Recommendations are mentioned in the following table.

Hands on training	
SEMESTER-I	
<ul style="list-style-type: none"><li>▪ Handling of different tillage implements, Identification of Crop seeds, manures, fertilizers, weeds etc.</li><li>▪ Meteorological instruments</li><li>▪ Recording of pulse rate, respiration rate and body temperature of animals, Routine management practices followed on livestock farm, Methods of handling and restraining of animals.</li><li>▪ Identification of different plant species Classification of different plant species on the basis of utility.</li><li>▪ History, approaches of soil study, weathering of rocks and minerals, classification of rocks and minerals, soil profile, physical properties of soil chemical properties of soil, soil survey, land capability classification.</li><li>▪ Handling of different equipments used in Agril. Microbiology laboratory.</li><li>▪ To study the basics of horticultural, important horticultural practices</li><li>▪ Vocabulary- Antonym, Synonym, Homophones, Homonyms, Vocabulary based on TOEFL and other competitive examinations.</li><li>▪ Functional grammar: Articles, Prepositions, Verb, Subject-Verb Agreement, Written Skills: Paragraph writing, Precise writing,</li><li>▪ Interviews: kinds, Importance and process,</li><li>▪ Listening Comprehension: Listening to short talks lectures, speeches (scientific, commercial and general in nature).</li><li>▪ Oral Communication: Phonetics, Stress and Intonation, Conversation practice.</li><li>▪ Reading skills: reading dialogues, rapid reading, intensive reading, improving reading skills,</li><li>▪ Mock Interviews: testing initiative, team spirit, leadership, intellectual ability, Group Discussions.</li></ul>	



- Calculations & numerical skills are improved through different mathematical processes used in engineering and different agricultural subjects.
- Primary introduction of Indoor and outdoor sports.
- Social awareness and positive involvement of youth to solve social problem, discipline among the students, Personality development.

**SEMESTER-II**

- Handling of different irrigation and water measuring devices, weirs, notches, soil moisture measurements, soil moisture measuring devices like gypsum block, tensiometer, bulk density, particle density, double-ring infiltrometer etc,
- Handling of different equipment used in Plant Pathology laboratory.
- General awareness about the soil erosion problems and scope of soil conservation in India,
- Identification & use of surveying instruments for measurement & area calculation,
- Study of leveling instruments & their use for calculation of reduced levels of points and grid survey,
- Estimation of runoff by rational method, Estimation of soil loss (USLE), Measurement of soil loss (multi slot divisor),
- Study of cross sections of grassed waterway for drainage of runoff, Design & use of contour, graded and compartmental bunds; terraces, CCT and staggered trenches for runoff management & erosion control,
- Use of gully control structures (KT weir, drop spillway, earthen nala bund).
- Determination of farm pond capacity. Visit to developed watershed.
- Demonstration of genetic principles, cell structure and function, hands on training on handling of different microscope
- Demonstration of vital physiological activity of crop plants and its effect on crop growth, study of different growth parameters of different crops, estimation of different plant pigments
- Collection and Preservation of Insect
- Dissection of Mouth parts and System
- Study of university extension system, Organizing group discussion- exercise, Handling and use of digital camera, LCD projector, Public Address System, Preparation of extension literature – leaflet, folder, Preparation of effective power point presentations, Writing of news story, Writing success story, Study of structure and functioning of DRDA, Study of structure and functioning of Department of Agriculture, Visit to NGO and learning from their experience in rural development, Visit to village to understand PRA techniques and their application in village development planning, Visit to community radio / television studio for understanding the process of programme production, Writing for print / electronic media, Developing script for radio / television
- Individual Personality Traits, Role Play and Impromptu Conversation /Public Speaking Practice focusing on Body Language,
- Vocabulary Practices: Developing a repertoire of words in various fields like Agriculture, Politics, Economics, Family, Personal Grooming etc., Role Play for Self Introduction in the class, Listening to recorded Shot, Questionnaires for Building Self Esteem and Self Confidence; Case Studies based on Development of Attitudes, Case Studies on Leadership Development, Case Studies on Leadership Development, Group Games, Ice breakers, Warm ups and Energizers Team Building Activities,
- Practice of Non Verbal Communication Skills: Dumb Charades and Dubsmash Practice, Exercise on Mutually Acceptable Proximity; and Eye Contact, Time Management Games to Practice and Experience the Importance of Planning / Delegating Work among them to properly manage time and complete the task in the shortest time possible,
- Public Speaking Games: (Introducing a friend with his/her life style; Describing a funny image provided by the teacher; Continuing a Story starting with one student and others try to continue with it and try to complete it. Take any object available and try to make a commercial for it, Practice of Emails
- Visit to the different research stations, KVKs, Agril Colleges, Private Companies etc in Maharashtra.
- Fundamentals, Micro Economics, Macro Economics and basics concepts of Agril. Economics.
- Identification of important forest species

**SEMESTER-III**

- Identification of Crop seeds, crops, manures, fertilizers, observations on crop growth stages, for *kharif* crops etc.
- Soil moisture conservation technology : opening of furrow, BBF, foliar spraying Farm pond, protective irrigation
- Plant breeding system used in crop improvement, Identification of different crops on the basis of mode of pollination and mode of reproduction, dissection of different floral parts, training on different emasculation and pollination techniques
- Global warming and climate change and its effects on Agriculture, Pollution and its control measures, Training on precautions during disaster management
- Biotechnological approaches for crop improvement, Training on use of biotechnological equipment's
- Handling of different spraying and dusting equipment used in Plant. Pathology.
- Information on Pest surveillance through light traps, pheromone traps and field incidence. Practicable IPM practices-biological methods
- To study the raising of seedlings, cultivations of important vegetables and Spices crops
- Introduction to Computer and Applications
- Practice of important DOS commands,
- Introduction to different operating systems such as - MS-window, Unix/ Linux, creating files and folders, file management, Word processing-1, Word processing-2, Presentation, Spreadsheet-1, Spreadsheet-2, Spreadsheet-3, DBMS/ RDBMS Creating, Updating database, Querying/ Retrieving data and relation
- Introduction to World Wide Web (WWW) and demonstration of Agri-information system, Hands on crop simulation models (CSM) such as DSSSAT/ Crop info/ Crop Syst/Wofost, Decision Support System, Computation of water and nutrient requirement of crop using CSM and IT tools, Introduction to Geospatial Technology for generating valuable information for Agriculture, Use of agricultural apps, agricultural data analysis using different database and software's , Use of different ICT tools, AI and Robotics in agriculture.
- Introduction to IC engines & their components , working principle & operation of two stroke cycle & four stroke cycle engine, numerical skills in engine power calculation,
- study of Fuel supply systems for S. I. & C. I. Engines, Air Cleaning and Cooling system, Lubrication system used in engines,
- study of Clutch , Gear Box and Differential unit of the Tractor.
- study of primary tillage & secondary tillage implements, use of inter-culturing tools and implements , use of seed cum fertilizer drill and calibration of seed drill,
- calculation of power requirement, area covered & time required for tillage implements, seed drill,
- use of sprayers, dusters, harvesting and threshing machinery, cost of operation of tractor, power tiller and implements
- Introduction and trainings on different types of Charts, Graphs and Basic analytical Methods

**SEMESTER-IV**

- Identification of Crop seeds, crops, manures, fertilizers, observations on crop growth stages, for *kharif* crops etc.
- Preparation of organic manures like FYM, Vermi-compost etc. Handling different manures.
- Practice in interviewing, Covering agricultural events, Abstracting stories from research and scientific materials and from wire services, Writing news story, Writing magazine story, Writing success story, Preparation of leaflet,
- Preparation of folder, Script writing for radio and television, Selecting pictures and artwork for the agricultural story, Practice in editing, copy reading, headline and title writing, Use of proof reading symbols,
- Preparing layout of farm publication, Preparing cover design of farm publication,
- Testing copy with a readability formula, Visit to press to understand the process of publication of newspaper
- Visit to the different ICAR research stations, KVKs, Multinational Company etc in Maharashtra
- Training on identification of off type plants in different crops, Training on seed production-processing technology of cereals. Pulses, oilseed crops

- Introduction to design & use of floating drum, fixed drum biogas plants, different types of gasifiers,
- Introduction to production process of biodiesel, ethanol and Briquettes
- Introduction to types & applications of solar cookers, solar water heater, solar dryer, solar water pumping system, solar lighting system, solar photovoltaic system,
- Solar Photovoltaic fencing, solar pond and solar distillation system
- Visit to Renewable energy integrated plant.
- Training on identification of off type plants in different crops, Training on seed production technology of cereals. Pulses, oilseed crops
- Training on different tissue culture techniques, Training on handling of different laboratory equipment's in micro-propagation techniques
- Identification of different problematic soil.
- Determination of pH, EC, ESP, SAR, RSC
- Handling and culturing of Bio control agents and bio-fertilizers like PSB, Rhizobium etc.
- Insect Pest of Mango, Pomegranate, Citrus.
- To study the cultivations practices of important Fruit and Plantation Crops
- Trainings on Preparation of agricultural Financial Projects
- Silage making, Chaffing of fodder, identification of feeds and fodder, computation of ration, improving low quality roughages.

**SEMESTER-V**

- Different land lay outs, primary and secondary tillage operations, intercultural operations, fertilizer application methods, rouging etc.
- Identification of monocot and dicot weeds, weed count using quadrat, weed press for herbarium preparation, handling herbicides and its label information, herbicide application techniques etc.
- Identification of different *Kharif* crops and training on seed production technology
- Classification of Manures and fertilizers
- INM, Scheduling of fertilizer application
- Identification of Field and Horticultural crop diseases and fungicides.
- To study the cultivations practices of important Ornamental Crops, MAP
- To study landscape and design
- To study the Protected cultivations practices of horticultural crops
- Insect Pest of Cotton, Pigeon pea, Soybean, Gram etc.
- Trainings on Identification of Different Marketing Channels for Agricultural commodities.
- Trainings on Preparation of Agricultural Projects, Balance Sheet, Income Statements and Cost of Cultivation
- Assessing entrepreneur potential, Assessment of problem solving ability, Exercises in creativity, conducting market survey to know the demands for different products, preparing advertisements for popularization of products and news writing, Preparing project proposals, Individual and group presentations and evaluation of presentation,
- Telephonic conversation: Rate of speech, clarity of voice, speaking and listening politeness, telephonic etiquettes, conducting meeting – Purpose, procedure, participation, physical arrangements, recording and writing of minutes of meeting,
- Seminar and conferences : Use of body language, Conducting mock interviews – testing initiative, team spirit and leadership, Group discussion and debates on current topics, Visit to entrepreneurship institute/ case study of successful entrepreneurs, Presentations by the students
- Cream separation, Preparation of different dairy products *khoa*, *paneer*, *shrikhand*, *kulfi*, *gulabjamun*, detection of adulteration, cleaning and sanitization of dairy equipments.

**SEMESTER-VI**

- Different land lay outs, primary and secondary tillage operations, intercultural operations, fertilizer application methods rouging etc.
- Open source GIS software, NDVI meter, spectro-radiometer, etc.
- Identification of different *Rabi* crops and training on seed production technology
- To study the different value added products of fruits and vegetables
- To study landscape and design
- Trainings on Preparation of Balance Sheet, Income Statements and Cost of Cultivation

- Preparation of crop weather calendar, Agro met advisories.
- Crop growth modals (DSSAT). Insect Models, sensitivity analysis
- Introduction to types of Greenhouses, Greenhouse covering and Constructional Materials, Cooling system & irrigation systems used in Greenhouse
- Introduction to instruments and equipment's used in Green House,
- Cost Estimation of Poly-house for 560 sqm.
- Visit to Commercial Green House,
- Determination of moisture content of various grains by oven method, Universal & Infrared moisture meter
- Determination of physical properties of grains,
- Design & use of LSU, Baffle, Tray and Solar dryers, material handling equipment's
- Visit to Seed Processing Plant.
- Feeding of sheep and goat kids, important management practices in sheep and goat, judging of goat
- Identification of Field and Horticultural crop diseases and fungicides.
- Seasonal Management of Honey Bees. Types of Honey Bees.
- Classification of Manures and fertilizers
- Identification of Agro chemical
- Scheduling of fertilizer application

**SEMESTER-VII (RAWE)**

- Village Attachment: The students would be placed in villages for a period of 10 weeks to understand the rural situation in relation to agriculture and allied activities. They would be in touch with various village components including farmers to record their observations in the field on daily basis.
- Plant Clinic: In continuation with the village attachment programme, the students would simultaneously undergo plant clinic activities which will impart diagnostic and remedial knowledge relevant to real field situation through practical training. Plant clinic activities would be completed in co-ordination with concerned unit where the student is attached for unit attachment.
- Unit attachment in university / College /KVK/ Research station: The students would be attached with government/university/ ICAR units engaged in the region to get acquainted with the on-going research/educational and extension activities and rural development programmes through farmers training, workshops etc.
- Agro-Industrial Attachment: The students would be attached/ placed with/in the agro-industries including cottage industries and commodities boards for a period of four weeks to get exposure and an experience of the industrial environment and working. This will develop confidence and competence among students.

**SEMESTER-VIII (ELP)**

- Methods of preparation of different organic manures, Vermicompost, vermiwash etc.
- Training on seed production technology in sorghum crop
- Training on different tissue culture techniques, Training on handling of different laboratory equipment's in micro-propagation techniques, Training on establishment of commercial tissue culture laboratory.
- Trainings on Production costs and estimation.
- Watershed management for Natural Resource Management (NRM),
- use of Remote sensing and GIS for NRM, Design & use of Soil and water conservation structures,
- Drip and sprinkler irrigation system use & maintenance, Measurement of irrigation water,
- Calibration of seed drill, Custom hiring of farm implements/ machineries,
- Primary processing of cereals, pulses and oilseeds & value-added products from Fruits and vegetables, Preparation of project proposal.
- To study the commercial vegetable production, grading, packing and marketing
- To study the commercial Flowers and Vegetables
- Cultivation of Mushroom.
- Rearing of poultry birds, vaccination, Slaughtering, feeding of poultry birds.
- Preparation of traditional milk products.
- Pricing of Milk, analysis of Milk
- Mass production of Bio Agents ,*Trichocard*, Rearing of *Corcyra*.
- Moriculture, Rearing of Silk Worm, Production of Cocoon.
- To promote professional skill, entrepreneurship and knowledge skill through meaning full hands on experience and working in soil, water, plant and fertilizer analysis





**Educational Tour – I : B.Sc. (Hons.) Agri. Second Semester students**



**Educational Tour NARCP, Solapur**



**Educational Tour: KVK, Kanheri Math, Kolhapur**



**Visit of Hon. Vice –Chancellor to Organoleptic Test Programme arranged by ELM on  
Mushroom Cultivation Technology**



**6.4.6 Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19 to 2021-22	B.Sc. (Hons.) Agri.	210	82
2	2022-23	B.Sc. (Hons.) Agri.	120	82
<b>*25% seats for all Undergraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity).</b> <b>From the academic year 2015-16 Agril. Technical school were admitted to second year of B.Sc. (Hons.) Agri. (20% of intake capacity students.)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and winding machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm, NCC and NSS. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Students of this college are admitted to higher studies, employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. The priority is also given to conduct the research on the major crops of this region and need of the farmers. According to their feedback the research is being carried out in the following areas at this College.

**Students, parents, industries, employers, farmers etc. (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with students' participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalized and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc.
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.

2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students' parents meeting was conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialized use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during <i>Kharif</i> and <i>Rabi</i> season	Farmers are advised on <i>Kharif</i> and <i>Rabi</i> crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.



**6.4.8 Students intake and attrition in the programme for last five years:**

Student actually admitted:

Name of degree programme	*Sanctioned strength		Actual student admitted in last five years					Attrition (%)				
	2018-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
<b>B.Sc. (Agri.)</b>	210	120	200	237	228	232	146	09 (4.5%)	12 (5.06%)	11 (4.82%)	09 (3.87%)	09 (6.16%)
<b>*25% seats are filled at all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>												

**6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)**

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical. The details of the courses and its delivery by using ICT tools are mentioned in following table.

**ICT Application in Curricula Delivery for B.Sc. (Hons.) Agri. (2018-19 to 2022-23)**

Sr. No.	Details of ICT tools used for curricula delivery
1	PPT Presentations, Use of internet, Smart phone apps VNMKV Weed management, IFS, Cotton Production Technology, Turmeric Production Technology, Plantex, etc.), Google Classroom, PDF file formats etc.
2	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app, etc.
3	Google / Zoom Meet
4	Preparation of CD, etc.
5	Agri Diksha, E- Content development
6	Android application on Plant Nutrition VNMKV, BlogSpot.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for UG students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for UG, students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for UG, students and also student's READY programme.
- Conducted online examination for UG, students.
- UG, PG and Ph.D. classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Android apps**

- Cotton Pests management
- Pests management of field crops
- VNMKV Weed management
- Cotton Production Technology

**Illuminators**

- IPM of Cotton
- IPM of Soybean
- IPM of pigeon pea

**Blog**

- [www.ipmbvb.blogspot.in](http://www.ipmbvb.blogspot.in)

**Website**

- [www.coap.vnmkv.ac.in](http://www.coap.vnmkv.ac.in)

**Other digital media used**

- Online Book on Chemical Weed Management in collaboration with POCRA.
- Google Classroom, WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided separately for UG Degree programme.**

**6.4.11 Since the accreditation of programmes is related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**


**6.4.12 Certificate**

I Dr. Syed Ismail, Associate Dean & Principal, College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the Departments.




**(Syed Ismail)  
Associate Dean & Principal**

## Appendix-I B.Sc. Students Feedback



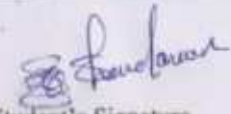
कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani




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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Bhandarwar Sonyona Santosh		
2	Registration No	2021AGPB164		
3	Degree and Semester	BSc. Agri (Hons) V <sup>th</sup> Sem (New)		
4	Name of Department (for M.Sc. & Ph.D. Students)			
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



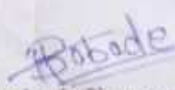
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वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Bobade Ashvini Jagannath		
2	Registration No	2021AJPB169		
3	Degree and Semester	Bsc Agri (VI Sem)		
4	Name of Department (for M.Sc. & Ph.D. Students)	-		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



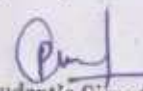
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वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी

College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	PRATAP SINGH		
2	Registration No	2022AVPB138		
3	Degree and Semester	B.Sc. Agri. III <sup>rd</sup> Sem.		
4	Name of Department (for M.Sc. & Ph.D. Students)	B.Sc. (Hons) Agriculture		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Student's Signature





कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी


College of Agriculture, Parbhani  
Vasanta Naik Marathwada Krishi Vidyapeeth, Parbhani




STUDENTS' FEEDBACK FORM

1	Name of the Student	Bhagane S R		
2	Registration No	2021AGPBT/1		
3	Degree and Semester	BSc. Agri. (V)		
4	Name of Department (for M.Sc. & Ph.D. Students)			
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Bhagane*  
Student's Signature



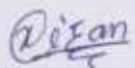
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वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	kalewad kiran shankarrao		
2	Registration No	2020AUPB197		
3	Degree and Semester	B.Sc. Ag. (Hons). and VII sem		
4	Name of Department (for M.Sc. & Ph.D. Students)			
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature

## Appendix-II Farmers Feedback

**प्रपत्र 'अ'**

**भराठवाड्यातील शेतकऱ्यांचा विद्यापीठ बाबतचा अभिप्राय**

**प्रात्यभरणा (Feedback)**

शेतकऱ्यांचे नाव: रामेश्वर ल्यंकटराव छोपरे मो.क्र. 8888911597

गाव: कोल्हावडी तालुका: मानवत जिल्हा: परभणी

१. वनामकृषि प्रसारीत कृषिदिनदर्शकाचा व त्यातील माहितीचा आपण नियमित वापर करता का ? होय/नाही
२. वनामकृषि प्रसारीत कृषि रोजनिशी (डायरीतील) माहिती चा वापर आपण करता का ? होय/नाही
३. वनामकृषि प्रसारीत मोबाईल ॲप चा वापर विविध पिकांच्या माहितीसाठी करता का ? पिकासाठी/किडीसाठी/रोगासाठी
४. वनामकृषि प्रसारीत हवामानाचा अंदाज आपल्यासाठी उपयुक्त करतो का ? होय/कधी-कधी/नाही
५. आमची माती आमचे माणसे हा आकाशवाणी वरील शेतकऱ्यांसाठी प्रसारीत कार्यक्रमचा वनामकृषि परभणोचे शास्त्र मार्गदर्शन करतात आपणास उपयोगी ठरतो का ? होय/कधी-कधी/नाही
६. वनामकृषि परभणो यांनी विविध पिकांवरील/विविध कृषि विषयांवरील शिफारशी आपल्याला उपयोगी पडतात का ? होय/नाही
७. वनामकृषि संशोधित बायोमिक्स चा उपयोग आपल्या गावातील शेतकरी करतात का ? होय/नाही
८. "एक दिवस बळीराजासाठी" हा उपक्रम वनामकृषि परभणो यांनी राबवला तो कार्यक्रम आपणास उपयुक्त ठरतो का ? होय/नाही
९. वनामकृषि आयोजित शेतकरी मेळावा आपल्यासाठी व आपल्या गावासाठी उपयुक्त ठरतो का ? होय/नाही
१०. वनामकृषि संशोधित विविध पिकांचे सरवड/संकरीत याणा कुठल्या पिकातील उपयुक्त ठरतात ? होय/नाही
११. RAWE विद्याभ्यानी दाखवलेले प्रात्यक्षिक गावातील शेतकऱ्यांसाठी उपयुक्त आहेत ? होय/नाही
१२. गावातील ग्रामपंचायतीत विद्याभ्यानी तयार केलेले पिकासाठीची माहिती फलक व माहिती कोपरा उपयुक्त आहे ? होय/नाही
१३. स्वातंत्र्यादिनी कृषि दुतांनी काढलेली प्रभातफेरी गावासाठी परिणामकारक ठरली ? होय/नाही
१४. विद्याभ्यानी गावातील शेतकऱ्यांसाठी दाखवलेले मित्रकिडी व शत्रुकिडी चे प्रात्यक्षिक शेतकऱ्यांसाठी परिणामकारक ठरणे ? होय/नाही
१५. लष्करी अडोच्या नियंत्रणासाठी विद्याभ्यानी शेतकऱ्यांना दाखवलेले फेरोमन ट्रप लावण्याची पध्दत व उपयुक्तता ? होय/नाही
१६. कितकनाशक फवारणीचे कृति प्रात्यक्षिक तांत्रिक दृष्ट्या उपयुक्तता ? होय/नाही
१७. ट्रीकोडर्मा कार्ड विषयीची कृषि विद्यापीठाने केलेली शिफारस शेतकऱ्यांसाठी महत्वाची आहे ? होय/नाही
१८. कृषि विद्यापीठ आपल्या दारी चा योजनेद्वारे कृषि शास्त्रज्ञाने दिलेली शेतावरील भेट फलदायी होती ? होय/नाही
१९. शास्त्रमुक्त जनावरांचा गोठा सफाईचे कृषि प्रात्यक्षिक शेतकऱ्यांसाठी उपयुक्त ठरले ? होय/नाही
२०. सोयाबीन, कपाशी, मूग, उडीद व इतर तूनधान्ये व दाळ जगाय पिकातील कृषि विद्यापीठ तंत्रज्ञाना विषयीचे घडी पत्रिका, पोस्टरातील माहितीची उपयुक्तता ? प्रभावी होती/नाही/सांगता येत नाही/नाही

शेतकऱ्याचे नाव व सही  
रामेश्वर छोपरे



**प्रपत्र 'अ'**

**मराठवाड्यातील शेतकऱ्यांचा विद्यापीठ बाबतचा अभिप्राय**

**प्रात्यभरणा (Feedback)**

शेतकऱ्यांचे नाव: जितिन उत्तमराव काकडे मो.क्र. 9545469396

गाव: पारवा तालुका: परभणी जिल्हा: परभणी

- वनामकृषि प्रसारीत कृषिदिनदर्शकाचा व त्यातील माहितीचा आपण नियमीत वापर करता का ? होय/नाही
- वनामकृषि प्रसारीत कृषि रोजनिशी (डायरीतील) माहिती चा वापर आपण करता का ? होय/नाही
- वनामकृषि प्रसारीत मोबाईल ॲप चा वापर विविध पिकांच्या माहितीसाठी करता का ? पिकांसाठी/किडीसाठी/रोगासाठी
- वनामकृषि प्रसारीत हवामानाचा अंदाज आपल्यासाठी उपयुक्त करतो का ? होय/कधी-कधी/नाही
- आमची माती आमचे माणसे हा आकाशवाणी वरील शेतकऱ्यांसाठी प्रसारीत कार्यक्रमच्या वनामकृषि परभणीचे शास्त्र मार्गदर्शन करतात आपणास उपयोगी ठरतो का ? होय/कधी-कधी/नाही
- वनामकृषि परभणी यांनी विविध पिकावरील/विविध कृषि विषयावरील शिफारशी आपल्याला उपयोगी पडतात का ? होय/नाही
- वनामकृषि संशोधित बायोमिक्स चा उपयोग आपल्या गावातील शेतकरी करतात का ? होय/नाही
- “एक दिवस बळीराजांसाठी” हा उपक्रम वनामकृषि परभणी यांनी राबवला तो कार्यक्रम आपणास उपयुक्त ठरतो का ? होय/नाही
- वनामकृषि आयोजित शेतकरी मेळावा आपल्यासाठी व आपल्या गावांसाठी उपयुक्त ठरतो का ? होय/नाही
- वनामकृषि संशोधित विविध पिकांचे सरवड/संकरीत वाणा कुठल्या पिकातील उपयुक्त ठरतात ? होय/नाही
- RAWE विद्यार्थ्यांनी दाखवलेले प्रात्यक्षीक गावातील शेतकऱ्यांसाठी उपयुक्त आहेत ? होय/नाही
- गावातील ग्रामपंचायतीत विद्यार्थ्यांनी तयार केलेले पिकासाठीची माहिती फलक व माहिती कोपरा उपयुक्त आहे ? होय/नाही
- स्वातंत्र्यदिनी कृषि दुतांनी काढलेली प्रभातफेरी गावासाठी परिणामकारक ठरली ? होय/नाही
- विद्यार्थ्यांनी गावातील शेतकऱ्यांसाठी दाखवलेले मित्रकिडी व शत्रुकिडी चे प्रात्यक्षीक शेतकऱ्यांसाठी परिणामकारक ठरणे ? होय/नाही
- लष्करी अळीच्या नियंत्रणासाठी विद्यार्थ्यांनी शेतकऱ्यांना दाखवलेले फेरोमोन ट्रप लावण्याची पध्दत व उपयुक्तता ? होय/नाही
- किटकनाशक फवारणीचे कृति प्रात्यक्षीक तांत्रिक दृष्ट्या उपयुक्तता ? होय/नाही
- ट्रॉकोडर्मा कार्ड विषयीची कृषि विद्यापीठाने केलेली शिफारस शेतकऱ्यांसाठी महत्वाची आहे ? होय/नाही
- कृषि विद्यापीठ आपल्या दारी या योजनेद्वारे कृषि शास्त्रज्ञाने दिलेली शेतावरील भेट फलदायी होती ? होय/नाही
- शास्त्रमुक्त जनावरांचा गोठा सफाईचे कृषि प्रात्यक्षीक शेतकऱ्यांसाठी उपयुक्त ठरले ? होय/नाही
- सोयाबीन, कपाशी, मुग, उडीद व इतर तुनधान्ये व दाळ वर्गीय पिकांतील कृषि विद्यापीठ तंत्रज्ञाना विषयीचे प्रभावी होती/नाही/सांगता येत नाही/नाही 1

घडी पत्रिका, पोस्टरातील माहितीची उपयुक्तता ?

जितिन उत्तमराव काकडे  
N. Kakde

शेतकऱ्याचे नाव व सही

प्रपत्र 'अ'

मराठवाड्यातील शेतकऱ्यांचा विद्यापीठ बाबतचा अभिप्राय

प्रात्यभरणा (Feedback)

शेतकऱ्यांचे नाव: गमो राम आवडागो मो.क्र. 9637235958

गाव: सोला तालुका: परभणी जिल्हा: परभणी

१. वनामकृवि प्रसारीत कृषिदिनदर्शकाचा व त्यातील माहितीचा आपण नियमीत वापर करता का ? होय/नाही
२. वनामकृवि प्रसारीत कृषि रोजनिशी (डायरीतील) माहिती चा वापर आपण करता का ? होय/नाही
३. वनामकृवि प्रसारीत मोबाईल ॲप चा वापर विविध पिकाच्या माहितीसाठी करता का ? पिकासाठी/किडीसाठी/रोगासाठी
४. वनामकृवि प्रसारीत हवामानाचा अंदाज आपल्यासाठी उपयुक्त करतो का ? होय/कधी-कधी/नाही
५. आमची मातो आमचे माणसे हा आकाशवाणी वरील शेतकऱ्यासाठी प्रसारीत कार्यक्रमव्या वनामकृवि परभणीचे शास्त्र मार्गदर्शन करतात आपणास उपयोगी ठरतो का ? होय/कधी-कधी/नाही
६. वनामकृवि परभणी यांनी विविध पिकावरील/विविध कृषि विषयावरील शिफारशी आपल्याला उपयोगी पडतात का ? होय/नाही
७. वनामकृवि संशोधीत बायोमिक्स चा उपयोग आपल्या गावातील शेतकरी करतात का ? होय/नाही
८. "एक दिवस बळीराजासाठी" हा उपक्रम वनामकृवि परभणी यांनी राबवला तो कार्यक्रम आपणास उपयुक्त ठरतो का ? होय/नाही
९. वनामकृवि आयोजित शेतकरी मेळावा आपल्यासाठी व आपल्या गावासाठी उपयुक्त ठरतो का ? होय/नाही
१०. वनामकृवि संशोधीत विविध पिकांचे सरवड/संकरीत वाणा कुठल्या पिकातील उपयुक्त ठरतात ? होय/नाही
११. RAWE विद्यार्थ्यांनी दाखवलेले प्रात्यक्षीक गावातील शेतकऱ्यांसाठी उपयुक्त आहेत ? होय/नाही
१२. गावातील ग्रामपंचायतीत विद्यार्थ्यांनी तयार केलेले पिकासाठीची माहिती फलक व माहिती कोपरा उपयुक्त आहे ? होय/नाही
१३. स्वातंत्र्यदिनी कृषि दुतांनी काढलेली प्रभातफेरी गावासाठी परिणामकारक ठरली ? होय/नाही
१४. विद्यार्थ्यांनी गावातील शेतकऱ्यांसाठी दाखवलेले मित्रकिडी व शत्रुकिडी चे प्रात्यक्षीक शेतकऱ्यांसाठी परिणामकारक ठरणे ? होय/नाही
१५. लष्करी अळीच्या नियंत्रणासाठी विद्यार्थ्यांनी शेतकऱ्यांना दाखवलेले फेरोमन ट्रप लावण्याची पध्दत व उपयुक्तता ? होय/नाही
१६. किटकनाशक फवारणीचे कृति प्रात्यक्षीक तांत्रिक दृष्ट्या उपयुक्तता ? होय/नाही
१७. ट्रॅकोडमां कार्ड विषयीची कृषि विद्यापीठाने केलेली शिफारस शेतकऱ्यांसाठी महत्वाची आहे ? होय/नाही
१८. कृषि विद्यापीठ आपल्या दारी या योजनेद्वारे कृषि शास्त्रज्ञाने दिलेली शेतावरील भेट फलदायी होती ? होय/नाही
१९. शास्त्रमुक्त जनावरांचा गोठा सफाईचे कृषि प्रात्यक्षीक शेतकऱ्यांसाठी उपयुक्त ठरले ? होय/नाही
२०. सोयबीन, कपाशी, मूग, उडीद व इतर तृणधान्ये व दाळ खगीय पिकातील कृषि विद्यापीठ तंत्रज्ञाना विषयीचे प्रभावी होती/नाही/संगता येत नाही/नाही घडी पत्रिका, पोस्टरातील माहितीची उपयुक्तता ?

Gamo  
शेतकऱ्याचे नाव व सही  
गमो राम



प्रपत्र 'अ'

मराठवाड्यातील शेतकऱ्यांचा विद्यापीठ बाबतचा अभिप्राय

प्रात्यभरणा (Feedback)

शेतकऱ्यांचे नाव: श्री. विठ्ठल सीताशम धारगीत मो.क्र. 8208694988

गाव: मिनाळ तालुका: मानस जिल्हा: परभणी

१. वनामकृषि प्रसारीत कृषिदिनदर्शकाचा व त्यातील माहितीचा आपण नियमीत वापर करता का ? होय/नाही
२. वनामकृषि प्रसारीत कृषि रोजनिशी (डायरीतील) माहिती चा वापर आपण करता का ? होय/नाही
३. वनामकृषि प्रसारीत मोबाईल ॲप चा वापर विविध पिकांच्या माहितीसाठी करता का ? पिकासाठी/किडीसाठी/रोगांसाठी
४. वनामकृषि प्रसारीत हवामानाचा अंदाज आपल्यासाठी उपयुक्त करतो का ? होय/कधी-कधी/नाही
५. आमची माती आमचे माणसे हा आकाशवाणी वरील शेतकऱ्यांसाठी प्रसारीत कार्यक्रमच्या वनामकृषि परभणीचे शास्त्र मार्गदर्शन करतात आपणास उपयोगी ठरतो का ? होय/कधी-कधी/नाही
६. वनामकृषि परभणी यांनी विविध पिकांवरील/विविध कृषि विषयांवरील शिफारशी आपल्याला उपयोगी पडतात का ? होय/नाही
७. वनामकृषि संशोधित बायोमिक्स चा उपयोग आपल्या गावातील शेतकरी करतात का ? होय/नाही
८. "एक दिवस बळीराजासाठी" हा उपक्रम वनामकृषि परभणी यांनी राबवला तो कार्यक्रम आपणास उपयुक्त ठरतो का ? होय/नाही
९. वनामकृषि आयोजित शेतकरी मेळावा आपल्यासाठी व आपल्या गावांसाठी उपयुक्त ठरतो का ? होय/नाही
१०. वनामकृषि संशोधित विविध पिकांचे सरबड/संकरीत वाणा कुठल्या पिकातील उपयुक्त ठरतात ? होय/नाही
११. RAWE विद्यार्थ्यांनी दाखवलेले प्रात्यक्षक गावातील शेतकऱ्यांसाठी उपयुक्त आहेत ? होय/नाही
१२. गावातील ग्रामपंचायतीत विद्यार्थ्यांनी तयार केलेले पिकासाठीची माहिती फलक व माहिती कोपरा उपयुक्त आहे ? होय/नाही
१३. स्वातंत्र्यदिनी कृषि दुतांनी काढलेली प्रभातफेरी गावासाठी परिणामकारक ठरली ? होय/नाही
१४. विद्यार्थ्यांनी गावातील शेतकऱ्यांसाठी दाखवलेले मित्रकिडी व शत्रुकिडी चे प्रात्यक्षक शेतकऱ्यांसाठी परिणामकारक ठरणे ? होय/नाही
१५. लष्करी अळीच्या नियंत्रणासाठी विद्यार्थ्यांनी शेतकऱ्यांना दाखवलेले फेरोमन ट्रप लावण्याची पध्दत व उपयुक्तता ? होय/नाही
१६. किटकनाशक फवारणीचे कृति प्रात्यक्षक तांत्रिक दृष्ट्या उपयुक्तता ? होय/नाही
१७. टूँकोडर्मा कार्ड विषयीची कृषि विद्यापीठाने केलेली शिफारस शेतकऱ्यांसाठी महत्वाची आहे ? होय/नाही
१८. कृषि विद्यापीठ आपल्या दारी या योजनेद्वारे कृषि शास्त्रज्ञाने दिलेली शेतावरील भेट फलदायी होती ? होय/नाही
१९. शास्त्रमुक्त जनावरांचा गोठा सफाईचे कृषि प्रात्यक्षक शेतकऱ्यांसाठी उपयुक्त ठरले ? होय/नाही
२०. सोयाबीन, कपाशी, मुग, उडीद व इतर तृणधान्ये व दाळ बगीच पिकातील कृषि विद्यापीठ तंत्रज्ञाना विषयीचे घडी पत्रिका, पोस्टरातील माहितीची उपयुक्तता ? प्रभावी होती/नाही/सांगता येत नाही/नाही

सहि : विठ्ठल

नाव : विठ्ठल धारगीत  
शेतकऱ्यांचे नाव व सही



VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH

**Department of Agronomy**  
College of Agriculture, Parbhani - 431 402 [MS]



## **6.4 Self-study report for the programme:- M.Sc. (Agri.)**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

Department of Agronomy was established in year 1972. With the establishment of the department post graduate educational programme leading to M.Sc. (Agri.) in Agronomy with specialization in crop husbandry and soil and water management was started.

#### **Objectives**

1. To educate, train and generate experts in the field of agricultural education and Agronomy in particular.
2. To develop crop production technologies for marathwada region for improving productivity in sustainable way.
3. To impart experiential learning in Agronomy to the students.
4. To suggest contingent plan / alternate crops and cropping pattern during water scarcity situations for marathwada region.
5. To develop agronomical technologies for farmers.
6. To carry out need based as well as applied research in field crop production and to help in transfer of technologies to the farmers of the region.

#### **2. Accomplishments**

##### **▪ Teaching:**

The Department of Agronomy, College of Agriculture, Parbhani was established in the year 1956. M.Sc. (Agri.) degree programme was started in the year 1972. Common Entrance Test (CET) is compulsory for getting admissions in M.Sc. (Agri.) degree programme for quality education.

The post graduate educational programme leading to M.Sc. (Agri.) in Agronomy with specialization in crop husbandry and soil and water management was started with the establishment of the department in the year 1972 with initial intake capacity of four students. The intake capacity was increased from 04 to 12 students from year 1985. PG programme was started at College of Agriculture, Latur in 2002 with intake capacity of 6 students. Now it has been increased up to 12 students per year from 2009 looking to the



need of the region and increase in private and constituent colleges. Similarly the P.G. programme started at College of Agriculture, Badnapur during the year 2012 with the intake capacity 6. The M.Sc. (Agri.) Agronomy educational programme is implemented through course work (35 credits) and research work (15 credits). The course work is grouped under i) Major course (22 credits) ii) Minor courses (9 credits) iii) Supporting courses (6 credits) and iv) Non credit compulsory courses (6 credits).

The M.Sc. (Agri.) research programme of the students is guided by academic staff of the department and research schemes. During last 50 years 570 students have successfully completed their M.Sc. (Agri.) programme in this department.

From year 2022-23, Department of Agronomy is implementing the New syllabus as per BSMA for M.Sc. (Agri.) degree programme.



**Staff and Students of Department of Agronomy, CoA, Parbhani**

▪ **Research:**

Department is entrusted the responsibility for finalizing the technical programme of research to be carried out in Agronomy Discipline in the University.

**Research Recommendations**

The following crop production technologies and crop improvement programmes have emerged from this department as a result of extensive research.

1. Production Technology of Safflower and Mustard
2. Production Technology and testing of Groundnut genotypes during post monsoon season.
3. Production Technology of *kharif* and *rabi* maize.
4. Production Technology of Sunhemp.
5. Management of intercrops in Sugarcane
6. Irrigation and fertilizer requirement of sugarcane based cropping system.
7. Released safflower variety PBNS-12 under AICORPO Safflower.
8. Use of fly ash in agronomic crops.
9. Development of TPS for commercial potato cultivation.
10. Production Technology of *Bt*. Cotton
11. Production technology for sugarcane

The main mandate of the Agronomy Department is to impart education; hence the research is mainly carried out through M.Sc. (Agri.) students. Faculty members submit their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) students. BOS is the high power body in the field of Education and Research for its policies. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.



**PG students working in field experiment on their Research topic.**

▪ **Extension education:**

The staff of the Department of Agronomy is regularly participating in extension activities like farmers rally, crop demonstrations, farmers training, training to extension workers, monthly district workshop, diagnostic team, field visits etc. organized by Directorate of Extension Education, Marathwada Agricultural University, Parbhani, State Department of Agriculture, Co-operative Sugar factories, Banks, NGOS, Fertilizer, Pesticide, Herbicide, fungicide companies etc.

In addition to this agro advisory committee meeting is regularly conducted by the Head, Department of Agronomy and the messages on the basis of the weather range forecasting are being formulated for the benefit of the farmers.

The staff of this department is regularly publishing the need based literature related to crop production and other management practices in daily newspapers and popular articles in different Journals.

The scientists are attending the programme of All India Radio as well as the programmes relayed on Regional TV service.



**Regular Visits of Agronomist on Department experimental fields and research station field trials are organised**





Every year Parthenium awareness week is organised during August month.

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	01	00	-	0
		Professor	01	00	-	0
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
2	2019-20	Head	01	00	-	0
		Professor	00	01	-	100
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
3	2020-21	Head	01	00	-	0
		Professor	00	01	-	100
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
4	2021-22	Head	01	00	-	0
		Professor	00	01	-	100
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
		Assitant Professor (Adhoc)	02	--	-	



5	2022-23	Head	01	00	-	0
		Professor	01	00	-	0
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
		Assitant Professor (Adhoc)	02	--	-	

**\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme**

#### **6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	03	09	--	--
2		Supporting including farm and field workers	11	105	--	--
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	03	08	--	--
2		Supporting including farm and field workers	11	105	--	--
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	04	08	--	--
2		Supporting including farm and field workers	11	105	--	--
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	04	08	--	--
2		Supporting including farm and field workers	11	105	--	--
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	04	08	--	--
2		Supporting including farm and field workers	11	105	--	--

**\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.**

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The Department of Agronomy has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Agronomy</b>			
1	Classroom No. 1	40	Sufficient for M.Sc. (Agri.) Students
2	Classroom No. 2	40	
3	Classroom No. 3	40	
4	Seminar Hall	30	

##### 2. Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Agronomy				
PG Laboratory	1	Top pan balance	40  12M X8 M  Each Laboratory	Sufficient for M.Sc. (Agri.) Students
	2	Weight balance		
	3	Soil moisture box		
	4	Digital thermometer		
	5	Soil auger post hole		
	6	Screw auger		
	7	Refrigerator		
	8	Mini rotary flask		
	9	Rotary shaker		
	10	Electronic weighing scale		
	11	Digital pH meter & EC meter		
	12	Hot air oven		
	13	Double ring infiltrometer		
	14	Kjel plus Nitrogen analyzer		
	15	Kjel plus digestion unit		
	16	Digital Flame photo meter		
	17	Systronics Digital Spectro Photo meter		
	18	Global position system (GPS)		
	19	Shaker		
	20	Lux meter		
	21	Anemometer		
	22	Digital P <sup>H</sup> meter		
	23	Visible spectrophotometer		
	24	Hot air oven		
	25	Penetrometer		

	26	Seed Counter machine		
	27	Polari meter		
	28	Hand refracto meter		
	29	Water measuring devices		
	30	Single and Double distillation apparatus		
	31	Infrared Thermometer		

### 3. Farm facilities

❖ **Total Farm area in hectare : 42.23 ha**

❖ **Irrigated Land in hectare : 30.00 ha**

#### Instructional Farm and facilities available:

The Department of Agronomy has total area of 62.39 hectares out of which 13.57 hectares of area is allotted to the Department of Botany, Department of Soil Science and Agricultural Chemistry as well as to the Cotton Research Scheme for the research and allied purpose. Again 1.10 hectares of area is allotted to the BioMix Centre for the purpose of research. Whereas 5.03 hectare area comes under farm buildings, farm roads, farm bunds and channels, etc. and Pingalgad nala occupies an area of 2.66 hectares. Besides, The main road (i.e. College of Agriculture to Central Nursery road ) has passed covering an area of 2.21 hectares belonging to the Department of Agronomy

However, the area of the Department is divided in to three blocks i.e. ‘A’ Block, ‘B’ Block and ‘C’ Block. ‘A’ Block at the back side of the Head office reserved for Crop cafeteria, PG and Departmental experiments; ‘B’ Block is nominated to the block which is located in front of the Head office that is completely used for seed production only. and ‘C’ Block is located besides the Library and Horticultural joint nala which is allotted for seed production.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Agronomy</b>		
<b>42.23 ha.</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 wells and 2 bore wells.	<ul style="list-style-type: none"> <li>• Crop cafeteria for <i>kharif</i> and <i>Rabi</i> crops &amp; their varieties every year in both seasons.</li> <li>• About 13 M.Sc. (Agri.) experiments of students are conducted every year</li> </ul>

Department of Agronomy Revenue receipts of the seed production and general crops				
Sr. No.	Year	Receipt Received Rs.		Total Receipts
		Seed Production	Grain Production	
1	2018-19	17,71,750/- (205.1 qtl.)	--	17,71,750/-
2	2019-20	16,05,021/- (146.14 qtl.)	--	16,05,021/-
		4,27,000/- (Product Testing)	--	4,27,000/-
3	2020-21	34,45,063/-(263.28 qtl.)	--	34,45,063/-
4	2021-22	18,79,243/-(195.15 qtl.)	12,510/-	18,91,753/-
5	2022-23	18,29,700/- (117 qtl.)	82,088/-	19,11,788/-

#### 4. Workshop/Other instructional unit if any give details.

##### ➤ Department of Agronomy

1. One well equipped seminar hall for M.Sc. (Agri.) students.
2. Experimental field for carrying out field experiments of M.Sc. (Agri.) students.

#### 5. Theory and practical batches for the degree programme.

M.Sc. (Agri.) Average 12 students per department					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### • M.Sc. (Agri.) Programme

As per the lesson plan, students practicals are conducted in a manner to give maximum exposure to the students for increasing their ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.



BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

**Department Wise Course Curriculum of M.Sc. (Agri.)**

Details of courses offered by each department as per BSMA.

Department	Hands of training
<b>Department of Agronomy</b>	
<b>M.Sc. (Agri.) Agronomy</b>	<ul style="list-style-type: none"><li>Conservation agriculture,</li><li>Integrated farming system, sustainable agriculture, resource conservation technology</li><li>Precision farming</li><li>Indentation of weed, calibration weed sprayer,</li><li>preparation of herbal pesticide</li><li>Organic manure, concentrate biological insecticide</li><li>fungicide, vermicompost,</li><li>GIS, GPS, hydrological studies vegetation studies fertility map watershed map</li><li>Abiotic and biotic stress, stress indices, Organic manure, chemical fertilizer , smart fertilizer,</li><li>Handling of different pressurised irrigation equipments along with infiltrometer etc.</li><li>Minimum tillage, reduced tillage , resource conservation technology, crop residue management, Soil fertility map, analysis of fertilizer</li><li>Seminar new topics of agronomy</li></ul>

**6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Agronomy</b>				
1	2018-19	Dr. D. N. Gokhale	Associate Dean	01
2		Dr. W. N. Narkhede	Head	01
3		Dr. B. V. Asewar	Professor	01
4		Dr. V.B. Awasarmal	Associate Professor	01
5		Dr. G.A. Bhalerao	Associate Professor	01
6		Dr. Mirza I.A.B.	Asstt. Professor	01
7		Dr. M. P. Jagtap	Asstt. Professor	01
8		Dr. P. K. Waghmare	Asstt. Professor	01
9		Dr. A.S. Karle	Asstt. Professor	01

10		Dr. A.S. Jadhav	Associate Professor	01
11		Dr. V.K. Khargkharate	Associate Professor	01
12		Dr. G.M. Kote	Associate Professor	01
13		Dr. A.K. Gore	Associate Professor	01
1	2019-20	Dr. D. N. Gokhale	Associate Dean	02
2		Dr. W. N. Narkhede	Professor	01
3		Dr. B. V. Asewar	Head	03
4		Dr. V.B. Awasarmal	Associate Professor	01
5		Dr. G.A. Bhalerao	Associate Professor	01
6		Dr. Mirza I.A.B.	Asstt. Professor	01
7		Dr. S. U. Pawar	Asstt. Professor	01
8		Dr. M. P. Jagtap	Asstt. Professor	02
9		Dr. P. K. Waghmare	Asstt. Professor	02
10		Dr. A.S. Karle	Associate Professor	01
11		Dr. A.S. Jadhav	Associate Professor	01
12		Dr. V.K. Khargkharate	Associate Professor	01
13		Dr. G.M. Kote	Associate Professor	01
1	2020-21	Dr. D. N. Gokhale	Associate Dean	01
2		Dr. W.N. Narkhede	Professor	01
3		Dr. B.V. Asewar	Head	02
4		Dr. V. B. Awasarmal	Associate Professor	01
5		Dr.S.U.Pawar	Asstt. Professor	01
6		Dr. G.A. Bhalerao	Associate Professor	01
7		Dr. M. P. Jagtap	Asstt. Professor	01
8		Dr. V.K. Khargakharate	Associate Professor	01
9		Dr.G.D.Gadade	Associate Professor	01
10		Dr. Mirza I.A.B.	Asstt. Professor	01
11		Dr. G.M. Kote	Associate Professor	01
1	2021-22	Dr. D. N. Gokhale	Associate Dean	01
2		Dr. W.N. Narkhede	Professor	01
3		Dr. B.V. Asewar	Head	02
4		Dr. V. B. Awasarmal	Associate Professor	01
5		Dr.S.U.Pawar	Asstt. Professor	01
6		Dr. G.A. Bhalerao	Associate Professor	01
7		Dr. M. P. Jagtap	Asstt. Professor	01
8		Dr. V.K. Khargakharate	Associate Professor	01
9		Dr.G.D.Gadade	Associate Professor	01
10		Dr. Mirza I.A.B.	Asstt. Professor	01
11		Dr. G.M. Kote	Associate Professor	01

12		Dr. A.S. Jadhav	Associate Professor	01
1	2022-23	Dr. A.K. Gore	Associate Professor	01
2		Dr. S. P. Kausalya	Asstt. Professor	01
3		Dr. M. P. Jagtap	Asstt. Professor	01
4		Dr. A.S. Jadhav	Associate Professor	01
5		Dr. A.D.Pandagale	Asstt. Professor	01
6		Dr. V.K. Khargakharate	Associate Professor	01
7		Dr.G.D.Gadade	Associate Professor	01
8		Dr. G.M. Kote	Associate Professor	01
9		Dr. G.A. Bhalerao	Associate Professor	01
10		Dr. V. B. Awasarmal	Associate Professor	01
11		Dr.S.U. Pawar	Asstt. Professor	01
12		Dr. Mirza I.A.B	Asstt. Professor	01
13		Dr. W.N. Narkhede	Head	01

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#### **6.4.7 Feedback of stakeholders**

Feedback of students is satisfactory, as remarks are given by them. According to their feedback, they are satisfied with the facilities of this department, smart classrooms and well equipped laboratories.

Most of the M.Sc. (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. One progressive farmer and one person from line department is nominated as member in department board of studies. The progressive farmer's comments and suggestion are considered while formulating the PG field experiments. The priority is also given to conduct the research on the major crops of this region.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per



			the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	13	14	14	15	15	13	00 (00%)	00 (00%)	03 (20.00%)	02 (13.33%)	00 (00%)

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Agronomy	M.Sc.(Agri.)	Online ICAR E-courses, PPT Presentations and use of internet, google classroom, smart phone app, etc.

- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- The ICT is now integral part of the teaching programme.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.

- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Android apps**

- VNMKV Weed management
- Cotton Production Technology

**Illuminators**

- IWM in field crops
- Application methods of weedicides

**Other digital media used**

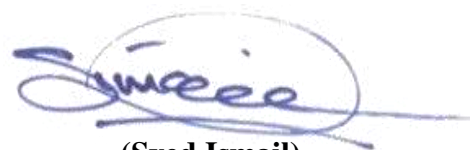
- Online Book on Chemical Weed Management in collaboration with POCRA.
- Google Classroom, WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**



**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



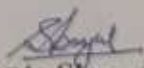
**(Syed Ismail)**  
**Dean ( Agri )**

## Appendix-I M.Sc. Students Feedback

 **VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**College of Agriculture, Parbhani**  
PARBHANI - 431 402 [MAHARASHTRA]  
Telephone No.: 02452-233 007 E-mail: adpcosap@gmail.com /adpgpbn@gmail.com 

**STUDENTS FEEDBACK FORM**

1	Name of the Student	Bagal Shivam Keshavnagar.		
2	Registration No.	2020A/0114		
3	Degree and Semester	M.Sc (Agronomy), IV <sup>th</sup> semester		
4	Name of Department (M.Sc. & Ph.D. Students)	Agronomy		
5	Departmental Library facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
**Students Signature**  
(Bagal S. K.)



VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH

College of Agriculture, Parbhani

PARBHANI - 431 402 [MAHARASHTRA]

Telephone No.: 02452-233 007 E-mail: adpcoap@gmail.com /adpgpbn@gmail.com





### STUDENTS FEEDBACK FORM

1	Name of the Student	BHAMBERE HRUSHIKESH DIPAK		
2	Registration No.	2021 A / 02 M		
3	Degree and Semester	IV		
4	Name of Department (M.Sc. & Ph.D. Students)	M.Sc. (Agronomy)		
5	Departmental Library facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Bhambere*

Students Signature  
(BHAMBERE H.D.)

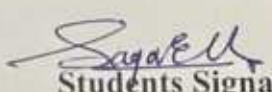




**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
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 Telephone No.: 02452-233 007 E-mail: [adpcoap@gmail.com](mailto:adpcoap@gmail.com) / [adpgpbn@gmail.com](mailto:adpgpbn@gmail.com)


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**STUDENTS FEEDBACK FORM**

1	Name of the Student	GTHULE SAGAR GANESH		
2	Registration No.	2022A/05M		
3	Degree and Semester	IV		
4	Name of Department (M.Sc. & Ph.D. Students)	M.Sc. (Agronomy)		
5	Departmental Library facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Students Signature  
 (GTHULE S.G.)



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 PARBHANI - 431 402 [MAHARASHTRA]  
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### STUDENTS FEEDBACK FORM

1	Name of the Student	Shreyasi chanda		
2	Registration No.	2023 A/110M		
3	Degree and Semester	MSc. 1st year. 2nd sem		
4	Name of Department (M.Sc. & Ph.D. Students)	MSc. 1st year Agronomy		
5	Departmental Library facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Shreyasi*  
**Students Signature**  
 (Shreyasi C.)



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### STUDENTS FEEDBACK FORM

1	Name of the Student	Chopkar Manu Govindaji		
2	Registration No.	2022-A/034		
3	Degree and Semester	M.Sc. Agronomy (II)		
4	Name of Department (M.Sc. & Ph.D. Students)	Agronomy		
5	Departmental Library facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Chopkar Manu  
Students Signature  
(Chopkar. N. G.)



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### STUDENTS FEEDBACK FORM

1	Name of the Student	Chopkar Manu Govindaji		
2	Registration No.	2022A/034		
3	Degree and Semester	M.Sc. Agronomy (II)		
4	Name of Department (M.Sc. & Ph.D. Students)	Agronomy		
5	Departmental Library facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Chopkar Manu  
Students Signature  
(Chopkar. M. G.)





VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH

## Department of Agronomy

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### 6.4 Self-study report for the programme Ph.D. (Agri.)

#### 6.4.1 Brief history of degree programme

##### 1. Year of start

Department of Agronomy was established in year 1972. With the establishment of the department post graduate educational programme leading to M.Sc. (Agri.) in Agronomy. Ph.D. degree in Agronomy started in the year 1973 initially by research work and from 1978-79 onwards partly by course and partly by research project.

##### Objectives

1. To educate, train and generate experts in the field of agricultural education and Agronomy in particular.
2. To develop crop production technologies for marathwada region for improving productivity in sustainable way.
3. To impart experiential learning in Agronomy to the students.
4. To suggest contingent plan / alternate crops and cropping pattern during water scarcity situations for marathwada region.
5. To develop agronomical technologies for farmers.
6. To carry out need based as well as applied research in field crop production and to help in transfer of technologies to the farmers of the region.

##### 2. Accomplishment

###### ■ Teaching:

Post graduate instructional programme leading to Ph.D. degree in Agronomy started in the year 1973 initially by research work and from 1978-79 onwards partly by course and partly by research project. This programme was implemented through 35 credits of course work and 35 credits of research. The admission capacity for Ph.D. degree is three students per academic year. So far 124 students have successfully completed their Ph.D. degree in this department. Ph.D. Agronomy educational programme is implemented through course work (40 credits) and research work (45 credits). As per the PG course

work schedule decided in Dean's committee meeting, in Ph.D. degree also the course work is grouped under:

- i. Major courses – 20 credits
- ii. Minor courses – 08 credits
- iii. Supporting courses – 06 credits
- iv. Non credits compulsory courses – 06 credits
- v. Research work – 45

Entrance Test (CET) is made compulsory for admissions to Ph.D. degree programme for quality education.



**Department of Agronomy, CoA, Parbhani**

▪ **Research:**

Department is entrusted the responsibility for finalizing the technical programme of research to be carried out in Agronomy Discipline in the University.

**Research Recommendations**

The following crop production technologies and crop improvement programmes have emerged from this department as a result of extensive research.

1. Production Technology of Safflower and Mustard
2. Production Technology and testing of Groundnut genotypes during post monsoon season.
3. Production Technology of *kharif* and *rabi* maize.
4. Production Technology of Sunhemp.
5. Management of intercrops in Sugarcane
6. Irrigation and fertilizer requirement of sugarcane based cropping system.
7. Released safflower variety PBNS-12 under AICORPO Safflower.
8. Use of fly ash in agronomic crops.
9. Development of TPS for commercial potato cultivation.
10. Production Technology of Bt. Cotton
11. Production technology for sugarcane

The main mandate of the Agronomy Department is to impart education; hence the research is mainly carried out through M.Sc. (Agri.) students. Faculty members submit their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) students. BOS is the high power body in the field of Education and Research for its policies. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.



**Ph.D. (Agri.) students working in Laboratory on their Research topic.**

▪ **Extension education:**

The staff of the Department of Agronomy is regularly participating in extension activities like farmers rally, crop demonstrations, farmers training, training to extension workers, monthly district workshop, diagnostic team, field visits etc. organized by Directorate of Extension Education, Marathwada Agricultural University, Parbhani, State Department of Agriculture, Co-operative Sugar factories, Banks, NGOS, Fertilizer, Pesticide, Herbicide, fungicide companies etc.

In addition to this agro advisory committee meeting is regularly conducted by the Head, Department of Agronomy and the messages on the basis of the weather range forecasting are being formulated for the benefit of the farmers.

The staff of this department is regularly publishing the need based literature related to crop production and other management practices in daily newspapers and popular articles in different Journals.



The scientists are attending the programme of All India Radio as well as the programmes relayed on Regional TV service.



**Bird eye view of Sweet corn field experiemnt of Student at Department of Agronomy**

## 6.4.2 Faculty strength (2018-19 to 2022-23)

### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR for 60 intake (college has 139 M.Sc. Agri. intake)	Deviation**
1	2018-19	Head	01	00	-	0
		Professor	01	00	-	0
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
2	2019-20	Head	01	00	-	0
		Professor	00	01	-	100
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
3	2020-21	Head	01	00	-	0
		Professor	00	01	-	100
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
4	2021-22	Head	01	00	-	0
		Professor	00	01	-	100
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
		Assitant Professor (Ad Hoc)	02	--	-	
5	2022-23	Head	01	00	-	0
		Professor	01	00	-	0
		Associate Professor	03	02	-	40
		Assistant Professor	04	01	-	43
		Assitant Professor (Ad Hoc)	02	--	-	

\* The faculties mentioned above are allotted for B.Sc., M.Sc. & Ph.D. Degree programme

**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR for 60 intake (college has 139 M.Sc. Agri. & 33Ph.D. intake)	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	03	09	--	--
2		Supporting including farm and field workers	11	105	--	--
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	03	08	--	--
2		Supporting including farm and field workers	11	105	--	--
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	04	08	--	--
2		Supporting including farm and field workers	11	105	--	--
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	04	08	--	--
2		Supporting including farm and field workers	11	105	--	--
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	04	08	--	--
2		Supporting including farm and field workers	11	105	--	--

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The Department of Agronomy has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Agronomy</b>			
1	Classroom No. 1	40	Sufficient for M.Sc. (Agri.) Students
2	Classroom No. 2	40	
3	Classroom No. 3	40	
4	Seminar Hall	30	

##### 2. Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Agronomy				
PG Laboratory	1	Top pan balance	40  12M X8 M  Each Laboratory	Sufficient for M.Sc. (Agri.) Students
	2	Weight balance		
	3	Soil moisture box		
	4	Digital thermometer		
	5	Soil auger post hole		
	6	Screw auger		
	7	Refrigerator		
	8	Mini rotary flask		
	9	Rotary shaker		
	10	Electronic weighing scale		
	11	Digital pH meter & EC meter		
	12	Hot air oven		
	13	Double ring infiltrometer		
	14	Kjel plus Nitrogen analyzer		
	15	Kjel plus digestion unit		
	16	Digital Flame photo meter		
	17	Systronics Digital Spectro Photo meter		
	18	Global position system (GPS)		
	19	Shaker		
	20	Lux meter		
	21	Anemometer		
	22	Digital P <sup>H</sup> meter		
	23	Visible spectrophotometer		
	24	Hot air oven		
	25	Penetrometer		
	26	Seed Counter machine		
	27	Polari meter		
	28	Hand refracto meter		
	29	Water measuring devices		



	30	Single and Double distillation apparatus		
	31	Infrared Thermometer		

### 3. Farm facilities

❖ **Total Farm area in hectare :**        **42.23 ha**

❖ **Irrigated Land in hectare :**        **30.00 ha**

#### **Instructional Farm and facilities available:**

The Department of Agronomy has **42.23** ha land and it is utilised for crop cafeteria, for Ph.D research work, for conduct of Ph.D. practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm. The most important instruments, equipments available on the college farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available. Composting unit as well as vermicompost units are available to utilize farm waste material which is used for Ph.D research trials conducted on instructional farms.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Agronomy</b>		
<b>42.23 ha.</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 wells and 2 bore wells.	<ul style="list-style-type: none"> <li>• Crop cafeteria for <i>kharif</i> and <i>Rabi</i> crops &amp; their varieties every year in both seasons.</li> <li>• About 03 Ph. D. (Agri.) experiments of students are conducted every year</li> </ul>

<b>Department of Agronomy Revenue receipts of the seed production and general crops</b>				
Sr. No.	Year	Receipt Received Rs.		Total Receipts
		Seed Production	Grain Production	
<b>1</b>	2018-19	17,71,750/- (205.1 qtl.)	--	<b>17,71,750/-</b>
<b>2</b>	2019-20	16,05,021/- (146.14 qtl.)	--	<b>16,05,021/-</b>
		4,27,000/- (Product Testing)	--	<b>4,27,000/-</b>
<b>3</b>	2020-21	34,45,063/-(263.28 qtl.)	--	<b>34,45,063/-</b>
<b>4</b>	2021-22	18,79,243/-(195.15 qtl.)	12,510/-	<b>18,91,753/-</b>
<b>5</b>	2022-23	18,29,700/- (117 qtl.)	82,088/-	<b>19,11,788/-</b>

**4. Workshop/Other instructional unit if any give details.****➤ Department of Agronomy**

1. One well equipped seminar hall for M.Sc. (Agri.) students.
2. Experimental field for carrying out field experiments of M.Sc. (Agri.) students.

**5. Theory and practical batches for the degree programme.**

<b>Ph.D. (Agri.) Average 3 students per department</b>					
<b>Sr. No.</b>	<b>Credit</b>	<b>Group-I</b>		<b>Total</b>	
		<b>Theory Batch</b>	<b>PracticalBatch</b>	<b>Theory Batch</b>	<b>PracticalBatch</b>
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

**6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)****Disciplinewise Ph.D. Course Curriculum:**

The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

Department	Hands on training
Ph.D.(Agri.) Agronomy	<ul style="list-style-type: none"> <li>▪ Sustainable agriculture, conservation agriculture, precision agriculture,</li> <li>▪ Analysis growth parameter ,PAR, infrared thermometer, Porometer, spad meter</li> <li>▪ Handling of different pressurised irrigation equipment's along with infiltrometer, etc.</li> <li>▪ HPLC, residue analysis ,Herbicide tolerance crop</li> <li>▪ Rainfed and irrigated farming system, vermicompost, Boundary plantation</li> <li>▪ Measurement of soil and nutrient loss, vetiver key line ,farm pond ,water shed management</li> <li>▪ Abiotic and biotic stress management.</li> <li>▪ preparation of herbal pesticide</li> <li>▪ Organic manure, biological insecticide</li> <li>▪ fungicide, vermicompost,</li> <li>▪ GIS, GPS, hydrological studies vegetation studies fertility map watershed map</li> <li>▪ Abiotic and biotic stress, stress indices, Organic manure, chemical fertilizer , smart fertilizer,</li> <li>▪ Handling of different pressurised irrigation equipments along with infiltrometer etc.</li> <li>▪ Minimum tillage, reduced tillage , resource conservation technology, crop residue management Soil fertility map ,analysis of fertilizer</li> <li>▪ Seminar new topics of agronomy</li> </ul>

#### 6.4.6 Supervision of students in Ph.D. Agri. degree programmes (2018-19 to 2022-23)

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Agronomy</b>				
1	2018-19	Dr. D. N. Gokhale	Associate Dean	01
2		Dr. W. N. Narkhede	Head	01
3		Dr. B. V. Asewar	Professor	01
4		Dr. A.S. Karle	Asstt. Professor	01
5		Dr. A.S. Jadhav	Associate Professor	01
1	2019-20	Dr. D. N. Gokhale	Associate Dean	01
2		Dr. W. N. Narkhede	Professor	01
3		Dr. B. V. Asewar	Head	01
4		Dr. A.S. Karle	Associate Professor	01
1	2020-21	Dr. D. N. Gokhale	Associate Dean	01
2		Dr. W.N. Narkhede	Professor	01

1	2021-22	Dr. D. N. Gokhale	Associate Dean	01
2		Dr. W.N. Narkhede	Professor	01
3		Dr. B.V. Asewar	Head	01
1	2022-23	Dr. W.N. Narkhede	Head	01
2		Dr. D.N. Gokhale	DI & Dean, VNMKV, Parbhani	01
3		Dr. B.V. Asewar	ADP, Golegaon	01
4		Dr. A.S. Karle	Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	Ph.D.(Agri.)	05	05
2	2019-20	Ph.D.(Agri.)	04	04
3	2020-21	Ph.D.(Agri.)	02	02
4	2021-22	Ph.D.(Agri.)	03	03
5	2022-23	Ph.D.(Agri.)	04	04
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. They are also satisfied with the facilities of this department, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the Ph.D. students of this department are employed in private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. One progressive farmer and one person from line department is nominated as member in department board of studies. The progressive farmer's comments and suggestion are considered while formulating the PG field experiments. The priority is also given to conduct the research on the major crops of this region.



**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with students participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test

			<p>report.</p> <p>Liquid bio fertilizers are available to farmers for sale.</p> <p>Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community.</p> <p>Feedback were submitted in research review at university level.</p> <p>Need based and location specific research programme was initiated.</p>
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
Ph.D. (Agri.)	03	05	04	02	04	04	00 (0.0%)	00 (0.0%)	00 (0.0%)	01 (25%)	01 (25%)
<p>*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</p> <p>**Intake of Ph.D. degree from the academic year 2016-17</p>											

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Agronomy	M.Sc.(Agri.)	Online ICAR E-courses, PPT Presentations and use of internet, google classroom, smart phone app, etc.

- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.

- Internet facilities available for Ph.D. students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- Two LCD projectors available
- Learning Management system (LMS): Google classroom for Ph.D. students.
- Conducted online examination for Ph.D. students.
- Ph.D. classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Android apps**

- VNMKV Weed management
- Cotton Production Technology

**Illuminators**

- IWM in field crops
- Application methods of weedicides

**Other digital media used**

- Online Book on Chemical Weed Management in collaboration with POCRA .
- Google Classroom, WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes is related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**


**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)  
Dean (Agri )**

## Appendix-I Ph.D. Students Feedback

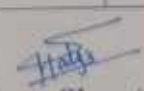


**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**  
 Telephone No.: 02452-233 007 E-mail: adpcoap@gmail.com / adpgpbn@gmail.com



### STUDENTS FEEDBACK FORM

1	Name of the Student	Halge Swapnil Shivajirao		
2	Registration No.	2021 H/02P		
3	Degree and Semester	vth sem, ph.D. Agronomy		
4	Name of Department (M.Sc. & Ph.D. Students)	Department of Agronomy		
5	Departmental Library facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
**Students Signature**  
 (Halge S.S.)



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### STUDENTS FEEDBACK FORM


1	Name of the Student	Pawar Avadhut Dinkar		
2	Registration No.	2021A/03P		
3	Degree and Semester	Ph.D (Agronomy), V semester		
4	Name of Department (M.Sc. & Ph.D. Students)	Agronomy		
5	Departmental Library facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Students Signature  
(Pawar A.D.)





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### STUDENTS FEEDBACK FORM

1	Name of the Student:	Apeksha B. Thombre		
2	Registration No.	2023A / 06 P		
3	Degree and Semester	Ph.D. (Agri), I sem		
4	Name of Department (M.Sc. & Ph.D. Students)	Agronomy (Ph.D. Student)		
5	Departmental Library facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Apeksha*  
**Students Signature**  
 (Thombre A.B.)



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### STUDENTS FEEDBACK FORM

1	Name of the Student	Shinde Lokdeshwar Ramkishan		
2	Registration No.	2023A/05P		
3	Degree and Semester	I		
4	Name of Department (M.Sc. & Ph.D. Students)	Ph.D (Agronomy)		
5	Departmental Library facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Students Signature  
(Shinde L.R.)



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Genetics and Plant Breeding**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme: - M.Sc. (Agri.) Genetics and Plant Breeding**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Genetics and Plant Breeding (Agril. Botany) was established in the year 1970 with intake capacity of six students. In the year 2020-21 M.Sc. (Agri.) intake capacity was increased to twelve students per year.

#### **2. Objectives**

1. To impart under graduate and post graduate instructions
2. To undertake research of postgraduate students and academic staff.
3. Planning, monitoring and review of need based and problem-oriented crop improvement research.
4. To provide technical guidance to the farmers and participation in extension activities regarding improved crop varieties and seed production.

#### **3. Accomplishments**

##### **▪ Teaching:**

Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Agri.) degree programme for quality education.

During last five years, 38 students successfully completed their degree programme in M.Sc. (Agri.) in Genetics and Plant Breeding. The college has signed MoU with reputed institutes like ICRISAT Hyderabad, BARC Mumbai, CICR Nagpur and NIASM Baramati for giving exposure to students for their research on advanced topics. During last five years 25 M.Sc. (Agri.) students were placed for Higher education, Govt. Services, Banking Services, Services in corporate sector, own business and farming.



**College of Agriculture, VNMKV, Parbhani**



**Celebration of International Year of Millets 2023 at Department of Genetics and Plant Breeding, College of Agriculture, VNMKV, Parbhani**

▪ **Research:**

The main mandate of the department is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Agri.). students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) student. BOS is the high power body in the field of Education and Research for its policies. More than 315 thesis on various research topics were submitted. Theses submitted by the students act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. Four Adhoc Research Projects in collaboration with International and National Institutes were completed.
2. Two Adhoc Research projects in collaboration with International and National institutes are in progress.
3. Contribution of teaching staff in release of following nine (09) varieties / hybrids.
  - State level release of first *Kharif* Sorghum biofortified variety Parbhani Shakti (PVK 1009) (Joint AGRESCO, 2018)
  - State level release of Cotton variety PA-740 (Joint Agresco, 2018)
  - State level release of Tamarind variety Shivai (Joint Agresco, 2018)
  - State level release of *Rabi* sorghum variety Parbhani Super Moti (SPV 2407) (Joint Agresco, 2019)
  - State level release of pigeon pea variety BDN2013-41 (Joint Agresco, 2020)
  - State level release of Cotton variety NHH44BG-2 (Joint Agresco, 2020)
  - State level release of *Rabi* sorghum variety Parbhani Vasant (PVRSG-101) (Joint Agresco, 2021)
  - State level release of Soybean variety MAUS-725 (Joint Agresco, 2021)
  - State level release of Safflower variety PBNS-154 (Joint Agresco, 2021)





**Project on “Genetic improvement of Sorghum (*Sorghum bicolor* L. Moench) for earliness and yield through induced mutations”.**

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers’ rallies and workshops and also frontline demonstration.

All faculty of the departments are actively involved and Head of Department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin krishi mosam seva) for the farmers.



**Visit of M.Sc. (GPB) students to  
Wheat Research Station**



**Tree Plantation and Field Visit of Hon. Vice-Chancellor Dr. Indra Mani Sir Dt.  
02/03/2023**

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	5	1	--	16.66
2	2019-20	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	4	2	--	33
3	2020-21	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	2	4	--	66.66
		Assistant Professor	4	2	--	33.33
4	2021-22	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	3	3	--	50
		Assistant Professor	5	1	--	16.66
5		Head	1	--	--	0
		Professor	1	--	--	0
		Associate Professor	3	3	--	50
		Assistant Professor	6	--	--	0

\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme

#### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned Staff*	Staff in place	Vacant position	Staff recommended by the ICAR	Deviation
1	2018-19	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2019-20	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2020-21	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2021-22	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2022-23	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	3	-	-	-

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.



#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
1	Classroom No. 1	20	Sufficient for M.Sc. (Agri.) Students
2	Classroom No. 2	40	
	Seminar Hall	60	

##### 2. Laboratories



**M.Sc. (Agri.) Students Working in Laboratory and Field**



### Laboratories

Laboratory	List of major equipment		Capacity	Remark
PG Laboratory  (1 &2)	1	Automatic/conveyer belt Leaf area meter	40 Students	Sufficient for M.Sc. (Agri.) Students
	2	Root Analyzer System		
	3	Gel documentation system		
	4	Soil Moisture Meter Model		
	5	Chlorophyll Meter Model SPAD 502		
	6	Digital Flame Photometer		
	7	Seed Germinator		
	8	Compound Microscope		
	9	Refrigerated centrifuge -8 <sup>0</sup> C		
	10	Deep freezer 265 Ltr. -20 <sup>0</sup> C		
	11	P <sup>H</sup> Meter		
	12	Leaf area meter (Portable)		
	13	Lilliput Cotton Ginning Machine	12M X8 M  Each Laboratory	
	14	BOD Incubator		
	15	Conductivity Meter		
	16	Spectrophotometer		
	17	Digital oven		
	18	Auto Clave		
	19	Sohxlet Apparatus		
	20	N Analyzer		
	21	Distillation Unit		
	22	PCR Machine		
	23	Binocular Microscope		
	24	Seed analyser		
	25	Seed dividder		
	26	Muffle furanse		
	27	Digital balance		
	28	Seed counter		

### 3. Farm facilities

❖ Total Farm area in hectare : 2.00 ha

❖ Irrigated Land in hectare : 2.00 ha

#### Instructional Farm and facilities available:

The department has 2 ha land and crop cafeteria for M.Sc. (Agri.) research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities

required for the purpose are available on the farm which includes shade nets, wells, tube wells etc.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
2.00 ha.	1-Well, 1 Tube well, Sprinkler Set, Shade Net	<ul style="list-style-type: none"> <li>About 25 experiments of M.Sc. (Agri.) students are conducted every year, respectively. Crop cafeteria for the <i>Kharif</i> and <i>Rabi</i> crop</li> </ul>



#### 4. Workshop/Other instructional unit if any give details.

1. Department Library for M.Sc. (Agri.) students
2. One well equipped seminar hall for M.Sc. (Agri.) students

#### 5. Theory and practical batches for the degree programme.

M.Sc. (Agri.) Average 12 students per Year					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### • M.Sc. (Agri.) Programme

As per the lesson plan, students practicalare conducted in a manner to give maximum exposure to the students forincreasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

##### **Hands on training of M.Sc (agri)**

Details of courses offered by each department as per BSMA.

Department	Hands of training
<b>M.Sc. (Agri.) Agril. Botany (Genetics &amp; Plant Breeding)</b>	<ul style="list-style-type: none"> <li>▪ Estimation of probability and chi-square</li> <li>▪ Study of induction and detection of mutation</li> <li>▪ Handling of compound microscope</li> <li>▪ Preparation of mitosis and meiosis slides</li> <li>▪ Staining and fixative techniques</li> <li>▪ Botanical description, floral biology, floral morphology, selfing and emasculation technique in field corps.</li> <li>▪ Evaluation of breeding material</li> <li>▪ Estimation of RBD analysis</li> <li>▪ Estimation / Calculation of RBD analysis, heterosis, heritability, correlation, path analysis, LXT, Diallel, generation mean analysis and interpretation of the results</li> <li>▪ Estimation of DNA, RNA and protein in organism</li> <li>▪ Cultivation of bacteria in synthetics medium</li> <li>▪ Phenotypic screening techniques for various biotic and abiotic agents</li> <li>▪ Nucleus seed production of various corps</li> <li>▪ Determination of isolation distance and planting ratios in different crops.</li> <li>▪ Seed production techniques of varieties in different corps</li> <li>▪ Hybrid seed production technology of imp. Corps</li> </ul>

	<ul style="list-style-type: none"> <li>▪ DNA isolation, DNA qualification, Electrophoresis, Molecular marker analysis, PCR operation.</li> <li>▪ Growth media preparation, micropropagation, callus culture</li> <li>▪ Topic analysis, Stage courage and presentation skills.</li> </ul>
<p>M.Sc. (Agri.) as per BSMA</p> <p><b>M.Sc. (Agri.) (Genetics &amp; Plant Breeding)</b></p>	<ul style="list-style-type: none"> <li>▪ Estimation of probability and chi-square</li> <li>▪ Study of induction and detection of mutation</li> <li>▪ Botanical description, floral biology, floral morphology, selfing and emasculation technique in field crops.</li> <li>▪ Evaluation of breeding material</li> <li>▪ Handling of compound microscope</li> <li>▪ Preparation of mitosis and meiosis slides Staining and fixative techniques</li> <li>▪ Phenotypic screening techniques for various biotic and abiotic agents</li> <li>▪ Botanical description, floral biology, floral morphology, selfing and emasculation technique in kharif crops. Evaluation of breeding material</li> <li>▪ Botanical description, floral biology, floral morphology, selfing and emasculation technique in vegetable crops.</li> <li>▪ Evaluation of breeding material</li> <li>▪ Botanical description, floral biology, floral morphology, selfing and emasculation technique in ornamental crops</li> <li>▪ Botanical description, floral biology, floral morphology, selfing and emasculation technique in vegetable crops</li> <li>▪ Training on use of different molecular tools in various crops</li> <li>▪ Training on mutation breeding for crop improvement</li> <li>▪ Training on quality seed production and certification</li> <li>▪ Training on different breeding methods used in <i>rabi</i> crop improvement, Use of different laboratory techniques</li> <li>▪ Use of different breeding method in fruit crops, Handling of different genetic stocks of fruit crops</li> <li>▪ Training on different germplasm evaluation techniques in resistance breeding, Different screening techniques for insect pest resistance, Screening techniques for drought resistance</li> <li>▪ Training on use of germplasm for crop improvement, training on conservation and evaluation techniques</li> <li>▪ Training on use of germplasm for crop improvement in different field crops</li> </ul>

#### 6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
1	2018-19	Dr. D.B. Deosarkar	Director of Extension Education	01
2		Dr. K.S. Baig	Professor	01
3		Dr. H.V. Kalpande	Associate Professor	01
4		Dr. S.P. Mehtre	Associate Professor	01
5		Dr. L.N. Jawale	Associate Professor	01

6		Dr. S.M. Umate	Associate Professor	01
7		Dr. A.M. Dethé	Associate Professor	01
8		Dr. R.R. Dhutmal	Associate Professor	01
9		Dr. J.D. Deshmukh	Assistant Professor	01
10		Dr. M.P. Wankhade	Assistant Professor	01
11	2019-20	Dr. J.E. Jahagirdar	Head	01
2		Dr. K.S. Baig	Professor	01
3		Dr. H.V. Kalpande	Associate Professor	01
4		Dr. S.P. Mehtre	Associate Professor	01
5		Dr. L.N. Jawale	Associate Professor	01
6		Dr. S.M. Umate	Associate Professor	01
7		Dr. A.M. Dethé	Associate Professor	01
8		Dr. R.R. Dhutmal	Associate Professor	01
9		Dr. D.K. Zate	Assistant Professor	01
10		Dr. A.W. More	Assistant Professor	01
11		Dr. J.D. Deshmukh	Assistant Professor	01
12		Dr. M.P. Wankhade	Assistant Professor	01
1	2020-21	Dr. J.E. Jahagirdar	Head	01
2		Dr. K.S. Baig	Professor	01
3		Dr. H.V. Kalpande	Associate Professor	01
4		Dr. S.P. Mehtre	Associate Professor	01
5		Dr. L.N. Jawale	Associate Professor	01
6		Dr. S.M. Umate	Associate Professor	01
7		Dr. A.M. Dethé	Associate Professor	01
8		Dr. R.R. Dhutmal	Associate Professor	01
9		Dr. D.K. Zate	Assistant Professor	01
10		Dr. A.W. More	Assistant Professor	01
11		Dr. J.D. Deshmukh	Assistant Professor	01
12		Dr. M.P. Wankhade	Assistant Professor	01
13		Dr. A.H. Rathod	Assistant Professor	01
1	2021-22	Dr. K.S. Baig	Professor	01
2		Dr. H.V. Kalpande	Associate Professor	01
3		Dr. S.P. Mehtre	Associate Professor	01
4		Dr. L.N. Jawale	Associate Professor	01
5		Dr. S.M. Umate	Associate Professor	01
6		Dr. A.M. Dethé	Associate Professor	01
7		Dr. R.R. Dhutmal	Associate Professor	02
8		Dr. D.K. Zate	Assistant Professor	02
9		Dr. A.W. More	Assistant Professor	03
10		Dr. J.D. Deshmukh	Assistant Professor	01
11		Dr. M.P. Wankhade	Assistant Professor	01
1	2022-23	Dr. D.B. Deosarkar	Director of Extension Education	01
2		Dr. K.S. Baig	Professor	01
3		Dr. H.V. Kalpande	Associate Professor	01
4		Dr. S.P. Mehtre	Associate Professor	01
5		Dr. L.N. Jawale	Associate Professor	01



6		Dr. S.M. Umate	Associate Professor	01
7		Dr. A.M. Dethé	Associate Professor	01
8		Dr. D.K. Zate	Assistant Professor	01
9		Dr. A.W. More	Assistant Professor	01
10		Dr. J.D. Deshmukh	Assistant Professor	01
11		Dr. M.P. Wankhade	Assistant Professor	01

#### Intake capacity and No. of qualified faculty (2018-19 to 2022-23)

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	M.Sc.(Agri.)	7	10
2	2019-20	M.Sc.(Agri.)	7	12
3	2020-21	M.Sc.(Agri.)	7	13
4	2021-22	M.Sc.(Agri.)	12	11
5	2022-23	M.Sc.(Agri.)	12	11
*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)				

#### 6.4.7 Feedback of stakeholders

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and vending machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this department.

Most of the M.Sc. (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to

conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale.

			Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	12	9	11	10	16	15	00 (0%)	00 (0%)	01 (6.25%)	00 (0%)	00 (0%)

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Genetics and Plant Breeding	M.Sc.(Agri.)	Online ICAR E-courses,PPT Presentations and use of internet, smartphone app, etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.

- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.
- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

#### Website

- [www.coap.vnmkv.ac.in](http://www.coap.vnmkv.ac.in)

#### Other digital media used

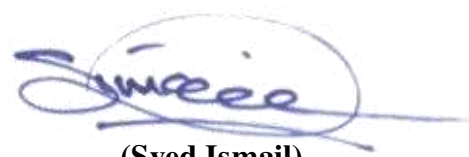
- Google Classroom, zoom meeting and WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



(Syed Ismail)  
Dean (Agri)

## Appendix-I M.Sc. Students Feedback



DEPARTMENT OF AGRICULTURAL BOTANY  
COLLEGE OF AGRICULTURE, PARBHANI  
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI- 431 402 (M.S.) INDIA



### Feedback Proforma

1	Name of Student	MARCHANG PHAMEI
2	Registration Number	2020A/35M
3	Discipline	Genetics & Plant Breeding
4	Academic year	2020 - 2022
5	e-mail address	phamg.marchang@gmail.com
6	Mobile No.	8638681973
7	Corresponding Address	Varsha Girls' Hostel, VNMKV Parbhani
8	Permanent address	Rika Village, Kamjong Dist, Manipur, India
9	Feed Back	<p>All the teaching &amp; non-teaching staffs of the dept. are very helpful &amp; caring. Never once did I feel like I'm from other state. The various extra-curricular activities undertaken by the dept. viz- field visits, etc. helped me shape into a better version of me. HOD, Messa mess, JO Librarian and all other faculty members were very cooperative &amp; considerate &amp; caring to be able to conduct my term within a short period of time. I am sincerely thankful for this. My guide Shuchan sir has been very supportive, cooperative and helpful. I am privileged to work under him. Thanking you Asst. Prof. Dr. I will make our dept proud everyday.</p>

Place: Parbhani  
Date: 2/6/2023

Signature Marchang Phamei

Name of student MARCHANG PHAMEI





DEPARTMENT OF AGRICULTURAL BOTANY  
COLLEGE OF AGRICULTURE, PARBHANI  
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI- 431 402 (M.S.) INDIA



Dr. H. V. Kalpande

Ph.D. Genetics & Plant Breeding, Commonwealth Fellow 2007, UK  
Head

Email : hbot.coapbn@gmail.com

hvkalpande@gmail.com

Cell: 9850237839/7588082163

Feedback Profarmla

1	Name of Student	Swati Haribhan Pohekar
2	Registration Number	2020A/36M
3	Discipline	Genetics and Plant breeding
4	Academic year	2020-2022
5	e-mail address	swatipohekar2605@gmail.com
6	Mobile No.	9309952793
7	Corresponding Address	Rajmata Jijau, Girls Hostel, VNMKV Parbhani
8	Permanent address	At Takasgan Tq./ Dist. Jalna
9	Name of the Research Guide	Dr. M. P. Wankhade
10	Name of the Research work	Genetic Variability, Correlation & Path analysis in Sesame (Sesamum indicum)
11	Feed Back	I am very glad to express my sincere gratitude to all the teaching and non-teaching staffs, Department of Agril. Botany for their needfull help all the time. A specially thanks to Dr. H.V. Kalpande sir, Head, Dept of Agril. Botany for providing me the laboratory to conduct my experimental observation. Also very thankful to my research guide Dr. M. P. Wankhade mam. Assistant professor of Agril. botany, and all the committee members for their valuable guidance during my research work.

Place : Parbhani

Date : 24/10/23

Signature

Pohekar Swati Haribhan  
Name of student



DEPARTMENT OF AGRICULTURAL BOTANY  
COLLEGE OF AGRICULTURE, PARBHANI  
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI- 431 402 (M.S.) INDIA

**Feedback Proforma**



1.	Name of Student:	YOGESH HOTTIGODAR
2.	Registration Number:	2020A/38M
3.	Discipline:	Genetics and Plant Breeding
4.	Academic year:	2020-2022
5.	E-mail address:	yogishyogi716@gmail.com
6.	Mobile no.:	8431943274, 7259516209
7.	Corresponding Address:	Nagnath PG Boys Hostel, VNMKV, Parbhani
8.	Permanent address:	At/Post: Holalu, Tal:Huvinhadagali, Dist: Vijayanagara,Karnataka-583217.
9.	Name of the research guide	Dr. H. V. Kalpande
10.	Name of the research work	Heterosis and correlation studies for yield, yield contributing and fibre quality traits in desi cotton ( <i>Gossypium arboreum</i> L.)
11.	Feed Back	<p>Sincere thanks to one &amp; all in Department of Agril Botany, including teaching &amp; non-teaching staff for providing friendly, cooperative environment during my academic years.</p> <p>I am heartfully thankful to my guide Dr.H.V.Kalpande for their immense support during the course of my degree. Their guidance on &amp; off the research work will be helpful forever in my life.</p> <p>More practical and laboratory classes will be helpful in better understanding of the concepts.</p> <p>Thank you...</p>

Place: Parbhani

Date: 23/01/2023

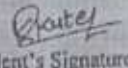
Signature :

Name of Student: Yogesh Hottigodar




**कृषि महाविद्यालय परभणी**  
**वरसनाथ नाईक मराठवाडा कृषि विद्यापीठ, परभणी**  
**College of Agriculture, Parbhani**  
**Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani**


**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Miss. Komal Govind Kute		
2	Registration No	2021A138M		
3	Degree and Semester	M.Sc. (Agri) IV sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agril. Botany (Genetics & plant Breeding)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

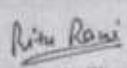
  
 Student's Signature  
 Kute Komal  
 (2021A138M)




**कृषि महाविद्यालय परभणी**  
**वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी**  
**College of Agriculture, Parbhani**  
**Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani**


**STUDENTS' FEEDBACK FORM**

1	Name of the Student	RITU RANI		
2	Registration No	2021A/38M		
3	Degree and Semester	II <sup>nd</sup> year, IV <sup>th</sup> Semester		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agril. Botany (Genetics & Plant Breeding)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Genetics and Plant Breeding**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



Telephone No.: 02452-233 007 E-mail: adpcoap@gmail.com /adpgpbn@gmail.com

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## **6.4 Self-study report for the programme: - Ph.D. (Agri.) Genetics and Plant Breeding**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

In Genetics and Plant Breeding (Agril. Botany), Ph.D degree programme started in the year 1975 with intake capacity of three students.

#### **2. Objectives**

1. To impart under graduate and post graduate instructions
2. To undertake research of postgraduate students and academic staff.
3. Planning, monitoring and review of need based and problem-oriented crop improvement research.
4. To provide technical guidance to the farmers and participation in extension activities regarding improved crop varieties and seed production.

#### **3. Accomplishments**

##### **▪ Teaching:**

Common Entrance Test (CET) is made compulsory for admissions for Ph.D. (Agri.) degree programme for quality education.

During last five years, 24 students successfully completed their degree programme in Ph.D (Agri.) in Genetics and Plant Breeding. The college has signed MoU with reputed institutes like ICRISAT Hyderabad, BARC Mumbai, CICR Nagpur and NIASM Baramati for giving exposure to students for their research on advanced topics. During last five years 20 Ph.D. (Agri.) students were placed for Higher education, Govt.Services, Banking Services, Services in corporate sector, own business and farming.





**College of Agriculture, VNMKV, Parbhani**



**Celebration of International Year of Millets 2023 at Department of Genetics and Plant Breeding, College of Agriculture, VNMKV, Parbhani**

▪ **Research:**

The main mandate of the department is to impart quality agricultural education; hence the research is mainly carried out through Ph.D. (Agri.) students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. (Agri.) student. BOS is the high power body in the field of Education and Research for its policies. More than 53 thesis on various research topics were submitted. Theses submitted by the students act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. Four Adhoc Research Projects in collaboration with International and National Institutes were completed.
2. Two Adhoc Research projects in collaboration with International and National institutes are in progress.
3. Contribution of teaching staff in release of following nine (09) varieties / hybrids.
  - State level release of first *Kharif* Sorghum biofortified variety Parbhani Shakti (PVK 1009) (Joint AGRESCO, 2018)
  - State level release of Cotton variety PA-740 (Joint Agresco, 2018)
  - State level release of Tamarind variety Shivai (Joint Agresco, 2018)
  - State level release of *Rabi* sorghum variety Parbhani Super Moti (SPV 2407) (Joint Agresco, 2019)
  - State level release of pigeon pea variety BDN2013-41 (Joint Agresco, 2020)
  - State level release of Cotton variety NHH44BG-2 (Joint Agresco, 2020)
  - State level release of *Rabi* sorghum variety Parbhani Vasant (PVRSG-101) (Joint Agresco, 2021)
  - State level release of Soybean variety MAUS-725 (Joint Agresco, 2021)
  - State level release of Safflower variety PBNS-154 (Joint Agresco, 2021)



**Project on “Genetic improvement of Sorghum (*Sorghum bicolor* L. Moench) for earliness and yield through induced mutations”.**

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers’ rallies and workshops and also frontline demonstration.

All faculty of the departments are actively involved and Head of Department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin krishi mosam seva) for the farmers.





**Experiment on Sorghum Mutation Breeding of Ph.D. (Agri.) student**



**Tree Plantation and Field Visit of Hon. Vice-Chancellor Dr. Indra Mani Sir Dt.  
02/03/2023**

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	5	1	--	16.66
2	2019-20	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	4	2	--	33
3	2020-21	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	2	4	--	66.66
		Assistant Professor	4	2	--	33.33
4	2021-22	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	3	3	--	50
		Assistant Professor	5	1	--	16.66
5		Head	1	--	--	0
		Professor	1	--	--	0
		Associate Professor	3	3	--	50
		Assistant Professor	6	--	--	0

\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme



#### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned Staff*	Staff in place	Vacant position	Staff recommended by the ICAR	Deviation
1	2018-19	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2019-20	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	3	-	-	-

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
1	Classroom No. 1	20	Sufficient for Ph.D (Agri.) Students
2	Classroom No. 2	40	
	Seminar Hall	60	

##### Laboratories



Ph.D. (Agri.) Students Working in Lab

## Laboratories

Laboratory	List of major equipment		Capacity	Remark
PG Laboratory  (1 &2)	1	Automatic/conveyer belt Leaf area meter	40 Students	Sufficient for Ph.D. (Agri.) Students
	2	Root Analyzer System		
	3	Gel documentation system		
	4	Soil Moisture Meter Model		
	5	Chlorophyll Meter Model SPAD 502		
	6	Digital Flame Photometer		
	7	Seed Germinator		
	8	Compound Microscope		
	9	Refrigerated centrifuge -8 <sup>0</sup> C		
	10	Deep freezer 265 Ltr. -20 <sup>0</sup> C		
	11	P <sup>H</sup> Meter		
	12	Leaf area meter (Portable)		
	13	Lilliput Cotton Ginning Machine	12M X8 M  Each Laboratory	
	14	BOD Incubator		
	15	Conductivity Meter		
	16	Spectrophotometer		
	17	Digital oven		
	18	Auto Clave		
	19	Sohxlet Apparatus		
	20	N Analyzer		
	21	Distilation Unit		
	22	PCR Machine		
	23	Binocular Microscope		
	24	Seed analyser		
	25	Seed divivder		
	26	Muffle furanse		
	27	Digital balance		
	28	Seed counter		

## 2. Farm facilities

❖ Total Farm area in hectare : 2.00 ha

❖ Irrigated Land in hectare : 2.00 ha

### Instructional Farm and facilities available:

The department has 2 ha land and crop cafeteria for Ph.D (Agri.) research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities

required for the purpose are available on the farm which includes shade nets, wells, tube wells etc.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
2.00 ha.	1-Well, 1 Tube well, Sprinkler Set, Shade Net	<ul style="list-style-type: none"> <li>About 5 experiments of Ph.D. (Agri.) students are conducted every year, respectively. Crop cafeteria for the <i>Kharif</i> and <i>Rabi</i> crop</li> </ul>



Visit of Dr. Ephrem Hybermania, ICRISAT

**4. Workshop/Other instructional unit if any give details.**

1. Department Library for Ph.D (Agri.) students
2. One well equipped seminar hall for Ph.D (Agri.) students

**5. Theory and practical batches for the degree programme.**

Ph.D. (Agri.) Average 3 students per Year					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

#### **6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)**

##### **Disciplinewise Ph.D. Course Curriculum:**

The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

##### **Hands on training of Ph.D. (agri)**

Details of courses offered by each department as per BSMA.

Ph.D. (Agri.) Agril. Botany GPB	<ul style="list-style-type: none"><li>▪ Use of software's in analysis and result interpretation of biometric tools</li><li>▪ Chromosome analysis in major field crops Genetic map construction using molecular marker</li><li>▪ Demonstration of plant responses to stress through recent techniques.</li><li>▪ Use of molecular tools in crop breeding</li><li>▪ Demonstration of Recent advances in crop breeding system</li><li>▪ Demonstration of Biometrical approaches in crop breeding</li><li>▪ Demonstration of Emasculation and pollination technique in</li><li>▪ Breeding systems</li><li>▪ Topic analysis, Stage courage and presentation skills.</li><li>▪ Topic analysis, Stage courage and presentation skills.</li></ul>
Ph.D.(Agri.) BSMA	<ul style="list-style-type: none"><li>▪ Use of software's in analysis and result interpretation of biometric tools</li><li>▪ Demonstration of Biometrical approaches in crop breeding</li></ul>



Ph.D. (Agri.) Genetics and Plant Breeding	<ul style="list-style-type: none"> <li>▪</li> <li>▪ Hybrid seed production of major field crops Maintenance of A; B and R lines.</li> <li>▪ Determination of cost of hybrid seed production of various crops</li> <li>▪ Determination of cost of organic seed production of various crops</li> <li>▪ Morphological description of plant parts and plant; character expression, recording of observation and interpretation of data</li> <li>▪ Estimation of Purity of cultivar by various chemical and biochemical test</li> <li>▪ Demonstration of seed quality enhancement technique in crop plant</li> <li>▪ Training of germplasm conservation exploration and filed visits. DUS characterization</li> <li>▪ Demonstration of seed priming hydration and dehydration</li> <li>▪ Visit to seed company</li> <li>▪ Seed planning, Visit to seed industry</li> </ul>
---	---

#### **6.4.6 Supervision of students in Ph.D. (Agri.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
	2018-19	Dr. M.K. Ghodke	Professor	1
		Dr. K.S. Baig	Professor	1
		Dr. H.V. Kalpande	Associate Professor	1
		Dr. S.P. Mehtre	Associate Professor	1
		Dr. S.B. Ghuge	Associate Professor	1
	2019-20	Dr. D.B. Deosarkar	Director of Extensatin Ecuation	1
		Dr. J.E. Jahagirdar	Head	1
		Dr. K.S. Baig	Professor	1
		Dr. H.V. Kalpande	Associate Professor	1
		Dr. D.K. Patil	Associate Professor	1
		Dr. S.P. Mehtre	Associate Professor	1
	2020-21	Dr. D.B. Deosarkar	Director of Extensatin Education	1
		Dr. J.E. Jahagirdar	Head	1
		Dr. K.S. Baig	Professor	1
		Dr. H.V. Kalpande	Associate Professor	1
		Dr. D.K. Patil	Associate Professor	1
		Dr. S.P. Mehtre	Associate Professor	1
	2021-22	Dr. D.B. Deosarkar	Director of Extensatin Ecuation	1
		Dr. K.S. Baig	Professor	1

		Dr. H.V. Kalpande	Associate Professor	1
		Dr. D.K. Patil	Associate Professor	1
		Dr. S.P. Mehtre	Associate Professor	1
	2022-23	Dr. J.E. Jahagirdar	Head	1
		Dr. S.P. Mehtre	Associate Professor	1

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	Ph.D (Agri.)	3	5
2	2019-20	Ph.D (Agri.)	3	6
3	2020-21	Ph.D (Agri.)	3	6
4	2021-22	Ph.D (Agri.)	3	6
5	2022-23	Ph.D (Agri.)	3	6
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and winding machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this department.

Most of the Ph.D (Agri.). (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the Ph.D (Agri.) (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is

also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale.

			Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	3	5	6	6	5	2	00 (0%)	00 (0%)	00 (6.00%)	00 (0%)	00 (0%)

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Genetics and Plant Breeding	Ph.D .(Agri.)	Online ICAR E-courses,PPT Presentations and use of internet, smartphone app, etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for Ph.D .(Agri.). (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.

- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for Ph.D .(Agri.). (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for Ph.D .(Agri.). (Agri.) students.
- Conducted online examination for Ph.D .(Agri.). (Agri.) students.
- Ph.D .(Agri.) (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Website**

- [www.coap.vnmkv.ac.in](http://www.coap.vnmkv.ac.in)

**Other digital media used**

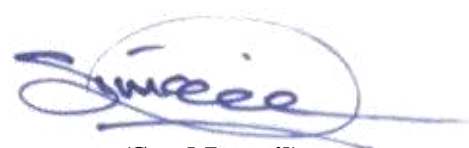
- Google Classroom, zoom meeting and WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**


I **Dr. Syed Ismail**, Dean(Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




(Syed Ismail)  
Dean (Agri)



## Appendix-I Ph.D. Students Feedback




कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasanttrao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	Mr. Pramod R. Sangar		
2	Registration No	2021A07P		
3	Degree and Semester	Ph.D. Agri 4 <sup>th</sup> Sem.		
4	Name of Department (for M.Sc. & Ph.D. Students)	Dept. of Agricultural Botany (CPB)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	Pranjal Jalindaç Shedge		
2	Registration No	2021 A108P		
3	Degree and Semester	Ph.D, IV <sup>th</sup> Semester		
4	Name of Department (for M.Sc. & Ph.D. Students)	Genetics & Plant Breeding		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Student's Signature



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	Dhare Sachin Laxman		
2	Registration No	2020A/03P		
3	Degree and Semester	Ph.D (Agm) VI sem.		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agri Botany (GPB)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*[Signature]*  
Student's Signature





DEPARTMENT OF AGRICULTURAL BOTANY  
COLLEGE OF AGRICULTURE, PARBHANI  
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI- 431 402 (M.S.) INDIA



Dr. H. V. Kalpande

Ph.D. Genetics & Plant Breeding, Commonwealth Fellow 2007, UK  
Head

Email : hbot.coaphn@gmail.com

hvkalpande@gmail.com

Cell: 9850237839/7588082163

Feedback Proforma



1	Name of Student	Deshmukh A.S.
2	Registration Number	2019A/OSP
3	Discipline	G.P.B
4	Academic year	2019 to 2023
5	e-mail address	akshaydeshmukh1915@gmail.com
6	Mobile No.	9861984835
7	Corresponding Address	Aurangabad
8	Permanent address	Alp shivoor, 19-waijapur dist. -Ahad
9	Name of the Research Guide	Dr. D. B. Desoskar
10	Title of the Research work	studies on heterosis, combining ability
11	Feed Back	<p>stability for fibre quality traits in intra &amp; inter specific cross of cotton.</p> <p>→ the department is very cooperative in nature</p> <p>→ technically they give us knowledge &amp; service in such challenging environment. This knowledge &amp; support definitely help us to achieve successes in future</p> <p>→ Thank you.... 😊</p>

Place : Parbhani

Date : 17/02/23

Signature

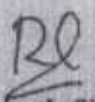
Name of student Deshmukh A.S


**कृषि महाविद्यालय परभणी**  
**वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी**  
**College of Agriculture, Parbhani**  
**Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani**


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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	SABAVAT RAJU NAIK		
2	Registration No	2019A/06P		
3	Degree and Semester	Ph.D and VIII <sup>th</sup> Semester		
4	Name of Department (for M.Sc. & Ph.D. Students)	GENETICS AND PLANT BREEDING Dept. of Agri. Botany		
5	Departmental Library facilities.(for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature





VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH

**Department of Plant Physiology**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme: - M.Sc. (Agri.) Plant Physiology**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Plant Physiology (Agril. Botany) was established in the year 1970 with intake capacity of four students. In the year 2020-21 M.Sc.(Agri.) intake capacity was increased to eight students per year.

#### **2. Objectives**

1. To impart under graduate and post graduate instructions
2. To undertake research of postgraduate students and academic staff.
3. Planning, monitoring and review of need based and problem-oriented crop improvement research.
4. To provide technical guidance to the farmers and participation in extension activities regarding improved crop varieties and seed production.

#### **3. Accomplishments**

##### **▪ Teaching:**

The College of Agriculture, Parbhani was established in the year 1956. M.Sc. (Agri.) degree programme was started in the year 1970. Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Agri.) degree programme for quality education.

During last five years, 20 students successfully completed their degree programme in M.Sc. (Agri.) in Plant Physiology. The college has signed MoU with reputed institutes like ICRI SAT Hyderabad, BARC Mumbai, CICR Nagpur and NIASM, Baramati for giving exposure to students for their research on advanced topics. During last five years 15 M.Sc. (Agri.) students were placed for Higher education, Govt. Servicess, Banking Servicess, Servicess in corporate sector, own business and farming.



**College of Agriculture, VNMKV, Parbhani**



**Guest lecture delivered by Dr. Ashok Badigannawar, Sr. Scientist, BARC, Mumbai  
at Department of Plant Physiology, College of Agriculture, VNMKV, Parbhani**

▪ **Research:**

The main mandate of the department is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Agri.). students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) students. BOS is the high power body in the field of Education and Research for its policies. More than 198 theses on various research topics were submitted. Theses submitted by the students act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. One Adhoc Research Projects in collaboration with National Institutes were completed.
2. One Adhoc Research projects in collaboration with International institutes are in progress.
3. Contribution of teaching staff in release of following nine (09) varieties / hybrids.
  - State level release of first *Kharif* Sorghum biofortified variety Parbhani Shakti (PVK 1009)(Joint AGRESCO, 2018)
  - State level release of Cotton variety PA-740 (Joint Agresco, 2018)
  - State level release of *Rabi* sorghum variety Parbhani Super Moti (SPV 2407) (Joint Agresco, 2019)
  - State level release of pigeon pea variety BDN2013-41 (Joint Agresco, 2020)
  - State level release of Cotton variety NHH44BG-2 (Joint Agresco, 2020)
  - State level release of *Rabi* sorghum variety Parbhani Vasant (PVRSG-101) (Joint Agresco, 2021)
  - State level release of Soybean variety MAUS-725 (Joint Agresco, 2021)
  - State level release of Safflower variety PBNS-154 (Joint Agresco, 2021)





GIZ Collaborative Project

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All faculty of the departments are actively involved and Head of Department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin krishi mosam seva) for the farmers.



Field Visit of to GIZ project at Manwat

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	5	1	--	16.66
2	2019-20	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	4	2	--	33
3	2020-21	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	2	4	--	66.66
		Assistant Professor	4	2	--	33.33
4	2021-22	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	3	3	--	50
		Assistant Professor	5	1	--	16.66
5		Head	1	--	--	0
		Professor	1	--	--	0
		Associate Professor	3	3	--	50
		Assistant Professor	6	--	--	0

\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme



**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned Staff*	Staff in place	Vacant position	Staff recommended by the ICAR	Deviation
1	2018-19	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2019-20	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2020-21	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2021-22	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2022-23	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	3	-	-	-

**\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.**

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
1	Classroom No. 1	20	Sufficient for M.Sc. (Agri.) Students
2	Classroom No. 2	40	
	Seminar Hall	60	

##### 2. Laboratories



##### Laboratories

Laboratory	List of major equipment		Capacity	Remark
<b>PG Laboratory</b> <b>(1 &amp;2)</b>	1	Automatic/conveyer belt Leaf area meter	40 Students	Sufficient for M.Sc. (Agri.) Students
	2	Root Analyzer System		
	3	Gel documentation system		
	4	Soil Moisture Meter Model		

	5	Chlorophyll Meter Model SPAD 502	12M X8 M  Each Laboratory	
	6	Digital Flame Photometer		
	7	Seed Germinator		
	8	Compound Microscope		
	9	Refrigerated centrifuge -8 <sup>0</sup> C		
	10	Deep freezer 265 Ltr. -20 <sup>0</sup> C		
	11	P <sup>H</sup> Meter		
	12	Leaf area meter (Portable)		
	13	Lilliput Cotton Ginning Machine		
	14	BOD Incubator		
	15	Conductivity Meter		
	16	Spectrophotometer		
	17	Digital oven		
	18	Auto Clave		
	19	Sohxlet Apparatus		
	20	N Analyzer		
	21	Distillation Unit		
	22	PCR Machine		
	23	Binocular Microscope		
	24	Seed analyser		
	25	Seed divider		
	26	Muffle furnace		
	27	Digital balance		
	28	Seed counter		

### 3. Farm facilities

- ❖ **Total Farm area in hectare : 1.00 acre**
- ❖ **Irrigated Land in hectare : 1.00 acre**

#### Instructional Farm and facilities available:

The department has 1 acre land and crop cafeteria for M.Sc. (Agri.) research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes shade nets, wells, tube wells etc.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>1.00 acre.</b>	1-Well, 1 Tube well, Sprinkler Set, Shade Net	<ul style="list-style-type: none"> <li>About 10 experiments of M.Sc. (Agri.) students are conducted every year, respectively. Crop cafeteria for the <i>Kharif</i> and <i>Rabi</i> crop</li> </ul>



#### 4. Workshop/Other instructional unit if any give details.

1. Department library for M.Sc. (Agri.) students
2. One well equipped seminar hall for M.Sc. (Agri.) students

#### 5. Theory and practical batches for the degree programme.

M.Sc. (Agri.) Average 8 students per Year					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### • M.Sc. (Agri.) Programme

As per the lesson plan, students practicalare conducted in a manner to give maximum exposure to the students forincreasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of student's thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

### Hands on training of M.Sc (Agri) Students

Details of courses offered by each department as per BSMA.

Department	Hands of Training
M.Sc. (Agri.) Agricultural Botany (Plant Physiology)	<ul style="list-style-type: none"> <li>▪ Measurement of plant water status.</li> <li>▪ Measurement of transpiration rate.</li> <li>▪ Estimation of reducing sugars and starch.</li> <li>▪ Surveillance heat tolerance test chilling tolerance</li> <li>▪ Analysis of growth and yield parameters</li> <li>▪ Measurement of plant water status.</li> <li>▪ Measurement of transpiration rate.</li> <li>▪ Estimation of reducing sugars and starch.</li> <li>▪ Measurement of plant water status.</li> <li>▪ Measurement of transpiration rate.</li> <li>▪ Estimation of reducing sugars and starch.</li> <li>▪ Heat tolerance test chilling tolerance</li> <li>▪ Measurement of plant nutrient and there translocation</li> <li>▪ Topic analysis, Stage courage and presentation skills.</li> </ul>
M.Sc. (Agri.) as per BSMA  M.Sc. (Agri.) (Plant Physiology)	<ul style="list-style-type: none"> <li>▪ Measurement of plant water status.</li> <li>▪ Measurement of transpiration rate.</li> <li>▪ Estimation of reducing sugars and starch.</li> <li>▪ Surveillance heat tolerance test chilling tolerance</li> <li>▪ Analysis of growth and yield parameters</li> <li>▪ Measurement of plant water status.</li> <li>▪ Measurement of transpiration rate.</li> <li>▪ Estimation of reducing sugars and starch.</li> <li>▪ Use of different growth regulators and its role in metabolic process and groth and development</li> <li>▪ Physiological mechanisms of nutrient uptake, Measurement of plant nutrient and there translocation</li> <li>▪ Measurement of plant water status.</li> <li>▪ Measurement of transpiration rate.</li> <li>▪ Estimation of reducing sugars and starch</li> <li>▪ Demonstration of seed priming hydration and dehydration</li> <li>▪ Visit to seed company</li> </ul>



**6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
1	2018-19	Dr. H.H. Bhadarge	Associate Professor	01
2		Dr. B.G. Kamble	Associate Professor	01
3		Dr. G.S. Pawar	Associate Professor	01
4		Dr. D.G. Dalvi	Assistant Professor	01
1	2019-20	Dr. H.H. Bhadarge	Associate Professor	01
2		Dr. B.G. Kamble	Associate Professor	01
3		Dr. G.S. Pawar	Associate Professor	01
4		Dr. D.G. Dalvi	Assistant Professor	01
1	2020-21	Dr. H.H. Bhadarge	Associate Professor	01
2		Dr. B.G. Kamble	Associate Professor	01
3		Dr. G.S. Pawar	Associate Professor	01
4		Dr. D.G. Dalvi	Assistant Professor	01
1	2021-22	Dr. G.S. Pawar	Associate Professor	02
2		Dr. D.G. Dalvi	Assistant Professor	01
3		Dr. A.B. Jadhav	Assistant Professor	01
4		Dr. A.H. Rathod	Assistant Professor	01
5		Dr. S.B. Borgaonkar	Assistant Professor	01
1	2022-23	Dr. G.S. Pawar	Associate Professor	02
2		Dr. D.G. Dalvi	Assistant Professor	02
3		Dr. R.R. Dhutmal	Associate Professor	01
4		Dr. A.B. Jadhav	Assistant Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	M.Sc.(Agri.)	4	4
2	2019-20	M.Sc.(Agri.)	4	4
3	2020-21	M.Sc.(Agri.)	4	4
4	2021-22	M.Sc.(Agri.)	8	5
5	2022-23	M.Sc.(Agri.)	8	4
*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)				

#### 6.4.7 Feedback of stakeholders

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and vending machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this department

Most of the M.Sc. (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

#### (Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.

2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

**6.4.8 Students intake attrition in the programme for last five years:**

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	8	4	4	4	8	8	00 (0%)	00 (0%)	00 (0%)	00 (0%)	01 (12.5%)

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)

**6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)**

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Plant Physiology	M.Sc.(Agri.)	Online ICAR E-courses,PPT Presentations and use of internet, smartphone app, etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.
- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Website**

- [www.coap.vnmkv.ac.in](http://www.coap.vnmkv.ac.in)

**Other digital media used**

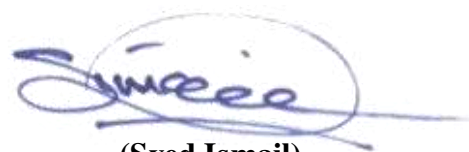
- Google Classroom, zoom meeting and WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**



I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri)**



## Appendix-I M.Sc. Students Feedback

	<b>DEPARTMENT OF AGRICULTURAL BOTANY</b> <b>COLLEGE OF AGRICULTURE, PARBHANI</b> <b>VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,</b> <b>PARBHANI- 431 402 (M.S.) INDIA</b>	
<b>Dr. H. V. Kalpande</b> Ph.D. Genetics & Plant Breeding, Commonwealth Fellow 2007, UK Head		Email : <a href="mailto:hbot.coaphn@gmail.com">hbot.coaphn@gmail.com</a> <a href="mailto:hvkalpande@gmail.com">hvkalpande@gmail.com</a> Cell: 9850237839/7588082163
<b>Feedback Profarma</b>		
1	Name of Student	Thombre Pawan Ramrao
2	Registration Number	2020 A/45 M
3	Discipline	Plant Physiology (Agril. Botany)
4	Academic year	2020-22
5	e-mail address	pavanthombre7799@gmail.com
6	Mobile No.	8390317947
7	Corresponding Address	Vaidyanath Boys Hostel, VNMKV, Parbhani
8	Permanent address	At Post: Undri Tq: Kaij Dist: Beed
9	Name of the Research Guide	Dr. D. G. Dalvi
10	Name of the Research work	"Morpho-physiological studies on green gram genotypes."
11	Feed Back	<p>I am very glad and would like to express my sincere thanks and gratitude towards all the teaching and non-teaching staff of the Dept. of Agril. Botany for their help throughout. My sincere thanks to Dr. H. V. Kalpande, Head, Dept. of Agril Botany for providing facilities to conduct my experiment and my Research Guide, Dr. D. G. Dalvi, Assistant Professor, Dept. of Agril. Botany, VNMKV, Parbhani and all the committee members for their valuable guidance during the course of my study and research work.</p>

Place: Parbhani  
 Date : 25.1.2023

  
 Signature  
 Name of student: Thombre Pawan Ramrao



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Badhe Dnyaneshwar Pandharinath		
2	Registration No	2022 A133M		
3	Degree and Semester	Msc (agri). II sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Plant Physiology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*[Signature]*

Student's Signature

DEPARTMENT OF AGRICULTURAL BOTANY  
College of Agriculture, VNMKV, Parbhani

Feedback proforma

1. Name of student : Rathod Manisha Rohidas
2. Registration Number : 2020A/44M
3. Discipline : plant physiology
4. Academic year : 2020-22
5. e-mail address : manishorathod5484@gmail.com
6. mobile no : 7013286332
7. Corresponding Address : Rajmata Jigau Hostel
8. Permanent Address : At post Bithnal Tq Umri
9. Name of Research Guide : Dr. A. B. Jadhav
10. Name of Research work : physiological analysis of promising rice genotypes for yield & yield contributing traits
11. Feedback : I am very glad and would like to express my sincere gratitude towards all teaching and non-teaching staff of Dept of Agri. botany for their help throughout. My sincere Thanks to Dr. H. V. Kalpande HOD for providing facilities to conduct my experiment and to my research guide Dr. A. B. Jadhav and all the committee members for their valuable guidance during the course of my study & research.

Place:- Parbhani

Date: 02-02-23



DEPARTMENT OF AGRICULTURAL BOTANY  
COLLEGE OF AGRICULTURE, PARBHANI  
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI- 431 402 (M.S.) INDIA



Dr. H. V. Kalpande  
Ph.D. Genetics & Plant Breeding, Commonwealth Fellow 2007, UK  
Head

Email : hbot.coapbn@gmail.com  
hvkalpande@gmail.com  
Cell: 9850237839/7588082163

Feedback Proforma

1	Name of Student	Peddinti Anu Gayathri
2	Registration Number	2020A/42M
3	Discipline	Plant Physiology
4	Academic year	2020-22
5	e-mail address	gayathrisatyas@gmail.com
6	Mobile No.	7661967664
7	Corresponding Address	
8	Permanent address	3-154 D, Pochpetalw, Kalisindi (MA), Eluru (dt), AP
9	Name of the Research Guide	Dr. S. B. Githu
10	Title of the Research work	Effect of Nanduzoa and chemical fertilizers on physiological parameters, seed yield and oil yield of Safflower ( <i>Carthamus tinctorius</i> L.)
11	Feed Back	<p>As a student of Agril. Botany department I am happy to study under this department. The Professors are very helpful and so kind. The non teaching staff helped in time for any work in lab &amp; in department. Thank you Head Sir for arranging visits and exposing us to the current research works that are going on.</p>

Place : Parbhani  
Date : 9-2-23

P. Anu Gayathri  
Signature  
Peddinti Anu Gayathri  
Name of student





DEPARTMENT OF AGRICULTURAL BOTANY  
COLLEGE OF AGRICULTURE, PARBHANI  
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI- 431 402 (M.S.) INDIA



Dr. H. V. Kalpande

Ph.D. Genetics & Plant Breeding, Commonwealth Fellow 2007, UK  
Head

Email : hbot.coapbn@gmail.com

hvkalpande@gmail.com

Cell: 9850237839/7588082163

Feedback Profarma

1	Name of Student	Pawar Ashwini Vilas
2	Registration Number	2020A/41M
3	Discipline	Plant Physiology (Agril. Botany)
4	Academic year	2020-22.
5	e-mail address	ashwiniashu1198@gmail.com
6	Mobile No.	7350292415.
7	Corresponding Address	Rajmata Jijau Girls Hostel, VNMKV Parbhani
8	Permanent address	At post: Kundal Tal: Palus Dist. Sangli
9	Name of the Research Guide	Dr. A.M. Misal
10	Name of the Research work	Physiological studies on nitrogen and sulphur nutrition in linseed ( <i>Linum usitatissimum</i> ) varieties.
11	Feed Back	<p>I am very glad and would like to express my sincere gratitude towards all the teaching and non-teaching staff of Dept. of Agril. Botany for their help and support throughout. My sincere thanks to Dr. H.V. Kalpande, Head, Dept. of Agril. Botany for providing facilities to conduct my experiment and to my Research guide, Dr. A.M. Misal, Assistant Breeder, STR &amp; QSP Unit, VNMKV, Parbhani and all the committee members for their valuable guidance during the course of my study and research work.</p>

Place: Parbhani

Date: 25.1.2023

Signature Ashwini

Name of student Pawar Ashwini Vilas





DEPARTMENT OF AGRICULTURAL BOTANY  
COLLEGE OF AGRICULTURE, PARBHANI  
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI- 431 402 (M.S.) INDIA

Feedback Proforma

1	Name of Student	Chavhan Manish Vishnudas
2	Registration Number	2020A/39M
3	Discipline	Plant Physiology
4	Academic year	2020-2022
5	E-mail address	manishchavhan34@gmail.com
6	Mobile no.	8767518681
7	Corresponding Address	Nagnath Hostel, VNMKV, Parbhani
8	Permanent address	Mahesh Nagar, Tq. Digra, Dist. Yavatmal, Maharashtra.
9	Feed Back	I am very glad to express my sincere gratitude to all the teaching and non teaching staffs, Department of Agril. Botany and Sorghum Research Station, VNMKV, Parbhani for their needfull help all the time. A specially sincere thanks to Dr. H.V. Kalpande sir, Head, Dept of Agril. Botany for providing me the laboratory to conduct my experimental observation and to my Research guide Dr. L. N. Jawale and all the committe member for their valuable guidance during my course study and research work.

Place: Parbhani

Date: 10/01/2023

Signature

Name of Student: Chavhan M. V



VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH  
Department of Plant Physiology,  
**College of Agriculture, Parbhani**  
PARBHANI - 431 402 [MAHARASHTRA]



Telephone No.: 02452-233 007 E-mail: adpcoap@gmail.com /adpgpbn@gmail.com

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## **6.4 Self-study report for the programme: - Ph.D. (Agri.) Plant Physiology**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

In Plant Physiology (Agril. Botany), Ph.D. degree programme started in the year 2015 with intake capacity of one students.

#### **2. Objectives**

1. To impart under graduate and post graduate instructions
2. To undertake research of postgraduate students and academic staff.
3. Planning, monitoring and review of need based and problem-oriented crop improvement research.
4. To provide technical guidance to the farmers and participation in extension activities regarding improved crop varieties and seed production.

#### **3. Accomplishments**

##### **▪ Teaching:**

Common Entrance Test (CET) is made compulsory for admissions for Ph.D. (Agri.) degree programme for quality education.

During last five years, five students successfully completed their degree programme in Ph.D (Agri.) in Plant Physiology. The college has signed MoU with reputed institutes like ICRIASAT Hyderabad, BARC Mumbai, CICR Nagpur and NIASM Baramati for giving exposure to students for their research on advanced topics. During last five years five Ph.D. (Agri.) students were placed for Govt.Services, Banking Services, Services in corporate sector, own business and farming.



**College of Agriculture, VNMKV, Parbhani**



**Student and Faculty Visit at WSU, Sydney, Australia**

▪ **Research:**

The main mandate of the department is to impart quality agricultural education; hence the research is mainly carried out through Ph.D. (Agri.) students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. (Agri.) student. BOS is the high power body in the field of Education and Research for its policies. More than 6 theses on various research topics were submitted. Theses submitted by the students act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. Two Adhoc Research Projects in collaboration with International and National Institutes were completed.
2. One Adhoc Research projects in collaboration with International and National institutes are in progress.
3. Contribution of teaching staff in release of following nine (09) varieties / hybrids.
  - State level release of first *Kharif* Sorghum biofortified variety Parbhani Shakti (PVK 1009) (Joint AGRESCO, 2018)
  - State level release of Cotton variety PA-740 (Joint Agresco, 2018)
  - State level release of *Rabi* sorghum variety Parbhani Super Moti (SPV 2407) (Joint Agresco, 2019)
  - State level release of pigeon pea variety BDN2013-41 (Joint Agresco, 2020)
  - State level release of Cotton variety NHH44BG-2 (Joint Agresco, 2020)
  - State level release of *Rabi* sorghum variety Parbhani Vasant (PVRSG-101) (Joint Agresco, 2021)
  - State level release of Soybean variety MAUS-725 (Joint Agresco, 2021)
  - State level release of Safflower variety PBNS-154 (Joint Agresco, 2021)





**Hands on Training of PG students**

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All faculty of the departments are actively involved and Head of Department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin krishi mosam seva) for the farmers.



**PG Students attended International training at AIA, Bangkok**



#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	5	1	--	16.66
2	2019-20	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	4	2	--	33
3	2020-21	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	2	4	--	66.66
		Assistant Professor	4	2	--	33.33
4	2021-22	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	3	3	--	50
		Assistant Professor	5	1	--	16.66
5		Head	1	--	--	0
		Professor	1	--	--	0
		Associate Professor	3	3	--	50
		Assistant Professor	6	--	--	0

\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme

**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned Staff*	Staff in place	Vacant position	Staff recommended by the ICAR	Deviation
1	2018-19	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2019-20	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2020-21	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2021-22	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2022-23	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	3	-	-	-

**\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.**

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
1	Classroom No. 1	20	Sufficient for Ph.D (Agri.) Students
2	Classroom No. 2	40	
	Seminar Hall	60	

##### 2. Laboratories

##### Laboratories

Laboratory	List of major equipment		Capacity	Remark
PG Laboratory  (1 &2)	1	Automatic/conveyer belt Leaf area meter	40 Students	Sufficient for Ph.D. (Agri.) Students
	2	Root Analyzer System		
	3	Gel documentation system		
	4	Soil Moisture Meter Model		
	5	Chlorophyll Meter Model SPAD 502		
	6	Digital Flame Photometer		
	7	Seed Germinator		
	8	Compound Microscope		
	9	Refrigerated centrifuge -8 <sup>0</sup> C		
	10	Deep freezer 265 Ltr. -20 <sup>0</sup> C		
	11	P <sup>H</sup> Meter		
	12	Leaf area meter (Portable)		
	13	Lilliput Cotton Ginning Machine	12M X8 M	
	14	BOD Incubator		
	15	Conductivity Meter	Each Laboratory	
	16	Spectrophotometer		
	17	Digital oven		
	18	Auto Clave		
	19	Sohxlet Apparatus		
	20	N Analyzer		
	21	Distillation Unit		
	22	PCR Machine		
	23	Binocular Microscope		
	24	Seed analyser		
	25	Seed divivder		
	26	Muffle furanse		
	27	Digital balance		
	28	Seed counter		

### 3. Farm facilities

- ❖ Total Farm area in hectare : 1.00 acre
- ❖ Irrigated Land in hectare : 1.00 acre

#### Instructional Farm and facilities available:

The department has a acre of land and crop cafeteria for Ph.D (Agri.) research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes shade nets, wells, tube wells etc.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Genetics and Plant Breeding, Plant Physiology and Seed Science &amp; Technology</b>		
<b>1.00 Acre</b>	1-Well, 1 Tube well, Sprinkler Set, Shade Net	<ul style="list-style-type: none"> <li>About 2 experiments of Ph.D. (Agri.) students are conducted every year, respectively. Crop cafeteria for the <i>Kharif</i> and <i>Rabi</i> crop</li> </ul>



#### 4. Workshop/Other instructional unit if any give details.

1. Department Library for Ph.D (Agri.) students
2. One well equipped seminar hall for Ph.D (Agri.) students

**5. Theory and practical batches for the degree programme.**

<b>Ph.D. (Agri.) Average 1 students per Year</b>					
<b>Sr. No.</b>	<b>Credit</b>	<b>Group-I</b>		<b>Total</b>	
		<b>Theory Batch</b>	<b>Practical Batch</b>	<b>Theory Batch</b>	<b>Practical Batch</b>
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

**6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)****Disciplinewise Ph.D. Course Curriculum:**

The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.



**Hands on training of Ph.D. (agri)**

Details of courses offered by each department as per BSMA.

Ph.D. (Agri.) Agril. Botany Plant physiology	<ul style="list-style-type: none"><li>▪ Studies of seed metabolism</li><li>▪ Seed germination method</li><li>▪ Method to break dormancy</li><li>▪ Topic analysis ,Stage courage and presentation skills</li><li>▪ Topic analysis ,Stage courage and presentation skills</li><li>▪ Various techniques to study physiological processes and to screen and assess stress responses in plants.</li><li>▪ Climate change and its effect on agriculture and monsoon and mitigation strategies.</li><li>▪ Post harvest maintenance of seed quality</li><li>▪ Effect of herbicide on physiology of weeds and crop</li><li>▪ Determination of seed storage proteins, seed viability tests and accelerated aging test</li><li>▪ Determination of molecular approaches , carbon dating technology in plant physiology</li><li>▪ Estimation of amino acids by chromatography and amino acid analyzer.</li><li>▪ Estimates of enzyme activates nucleic acid and symbiotic nitrogen fixates</li><li>▪ Topic analysis ,Stage courage and presentation skills</li><li>▪ Topic analysis ,Stage courage and presentation skills</li></ul>
BSMA Ph.D.(Agri.) Plant Physiology	<ul style="list-style-type: none"><li>▪ Various techniques to study physiological processes and to screen and assess stress responses in plants</li><li>▪ Diffent experimental techniques to characterize plant processes for crop improvement.Determination of molecular approaches , carbon dating technology in plant physiology</li><li>▪ Study of ecology of plant and microbe interctions.</li></ul>

**6.4.6 Supervision of students in Ph.D. (Agri.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
1	2018-19	Dr. V.D.Solunke	Head	1
	2019-20	Dr. D.G. Dalvi	Associate Professor	1
	2020-21	Prof. H.B Bhadarge	Associate Professor	1
	2021-22	Dr. D.G. Dalvi	Associate Professor	1
	2022-23	Dr.G.S.Pawar	Associate Professor	1

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of Degree Programme</b>	<b>Intake capacity*</b>	<b>No. of qualified faculty</b>
<b>1</b>	2018-19	Ph.D (Agri.)	1	2
<b>2</b>	2019-20	Ph.D (Agri.)	1	2
<b>3</b>	2020-21	Ph.D (Agri.)	1	2
<b>4</b>	2021-22	Ph.D (Agri.)	1	3
<b>5</b>	2022-23	Ph.D (Agri.)	1	3
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and vending machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this department.

Most of the Ph.D (Agri.). (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the Ph.D (Agri.) (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on

			pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	1	1	1	1	1	1	00 (0%)	00 (0%)	00 (6.00%)	00 (0%)	00 (0%)

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Plant Physiology	Ph.D. (Agri.)	Online ICAR E-courses, PPT Presentations and use of internet, smartphone app, etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for Ph.D. (Agri.). (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.

- Two LCD projectors available
- Online lectures are arranged for Ph.D .(Agri.). students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for Ph.D .(Agri.). students.
- Conducted online examination for Ph.D .(Agri.). students.
- Ph.D .(Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Website**

- [www.coap.vnmkv.ac.in](http://www.coap.vnmkv.ac.in)

**Other digital media used**

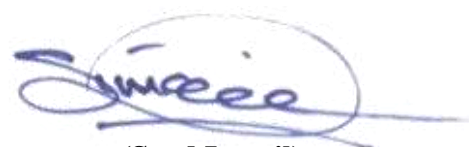
- Google Classroom, zoom meeting and WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**


I **Dr. Syed Ismail**, Dean(Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



**(Syed Ismail)**  
**Dean (Agri)**

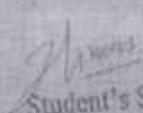


## Appendix-I Ph.D. Students Feedback


 कृषि महाविद्यालय परभणी  
 वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
 College of Agriculture, Parbhani  
 Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani

**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Jhane Vishal Shinde		
2	Registration No	2020A/06P		
3	Degree and Semester	Ph.D. (1st Sem)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Dep. of Agri. Botany (Comp. Agronomy)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Tatewad P. G.		
2	Registration No	2019 A/09 P		
3	Degree and Semester	Ph.D (A5-2)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agri. Botany (Plant Physiology)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Student's Signature  
Tatewad P. G.



VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH

**Department of Seed Technology**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme: - M.Sc. (Agri.) Seed Science and Technoogy**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Seed Technology (Agril. Botany) Parbhani was established in the year 1978 with intake capacity of two students. In the year 2020-21 M.Sc.(Agri.) intake capacity was increased to four students per year.

#### **2. Objectives**

1. To impart under graduate and post graduate instructions
2. To undertake research of postgraduate students and academic staff.
3. Planning, monitoring and review of need based and problem oriented crop improvement research.
4. To provide technical guidance to the farmers and participation in extension activities regarding improved crop varieties and seed production.

#### **3. Accomplishments**

##### **▪ Teaching:**

The College of Agriculture, Parbhani was established in the year 1956. M.Sc. (Agri.) degree programme was started in the year 1970. Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Agri.) degree programme for quality education.

During last five years, 10 students successfully completed their degree programme in M.Sc. (Agri.) in Seed Technology. The college has signed MoU with reputed institutes like ICRI SAT Hyderabad, BARC Mumbai, CICR Nagpur and NIASM, Baramati for giving exposure to students for their research on advanced topics. During last five years 6 M.Sc. (Agri.) sutudents were placed for Higher education, Govt. Servicess, Banking Servicess, Servicess in corporate sector, own business and farming.





**College of Agriculture, VNMKV, Parbhani**



**Organization of guest lecture on Millets on the occasion of International Year of Millets 2023 at Department of Seed Science and Technology, College of Agriculture, VNMKV, Parbhani**

▪ **Research:**

The main mandate of the department is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Agri.) students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) students. BOS is the high-power body in the field of Education and Research for its policies. More than 65 theses on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. Four Adhoc Research Projects in collaboration with International and National Institutes were completed.
2. Two Adhoc Research projects in collaboration with International and National institutes are in progress.
3. Contribution of teaching staff in release of following nine (09) varieties / hybrids.
  - State level release of first *Kharif* Sorghum biofortified variety Parbhani Shakti (PVK 1009) (Joint AGRESCO, 2018)
  - State level release of Cotton variety PA-740 (Joint Agresco, 2018)
  - State level release of *Rabi* sorghum variety Parbhani Super Moti (SPV 2407) (Joint Agresco, 2019)
  - State level release of pigeon pea variety BDN2013-41 (Joint Agresco, 2020)
  - State level release of Cotton variety NHH44BG-2 (Joint Agresco, 2020)
  - State level release of *Rabi* sorghum variety Parbhani Vasant (PVRSG-101) (Joint Agresco, 2021)
  - State level release of Soybean variety MAUS-725 (Joint Agresco, 2021)
  - State level release of Safflower variety PBNS-154 (Joint Agresco, 2021)





Visit of M.Sc. students to crossing block of Soybean Research Station

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All faculty of the departments are actively involved and Head of Department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin krishi mosam seva) for the farmers.



**M.Sc. student recording observation in Safflower research trial**



**Visit of M.Sc. students to Sorghum Research Station**

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	5	1	--	16.66
2	2019-20	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	4	2	--	33
3	2020-21	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	2	4	--	66.66
		Assistant Professor	4	2	--	33.33
4	2021-22	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	3	3	--	50
		Assistant Professor	5	1	--	16.66
5		Head	1	--	--	0
		Professor	1	--	--	0
		Associate Professor	3	3	--	50
		Assistant Professor	6	--	--	0

\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme



**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned Staff*	Staff in place	Vacant position	Staff recommended by the ICAR	Deviation
1	2018-19	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2019-20	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2020-21	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2021-22	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2022-23	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	3	-	-	-

**\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.**

**6.4.4 Class room and Laboratories (2018-19 to 2022-23)**

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

**1. Classroom**

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
1	Classroom No. 1	20	Sufficient for M.Sc. (Agri.) Students
2	Classroom No. 2	40	
	Seminar Hall	60	

## 2. Laboratories

Laboratory	List of major equipment		Capacity	Remark
PG Laboratory  (1 &2)	1	Automatic/conveyer belt Leaf area meter	40 Students	Sufficient for M.Sc. (Agri.) Students
	2	Root Analyzer System		
	3	Gel documentation system		
	4	Soil Moisture Meter Model		
	5	Chlorophyll Meter Model SPAD 502		
	6	Digital Flame Photometer		
	7	Seed Germinator		
	8	Compound Microscope		
	9	Refrigerated centrifuge -8 <sup>0</sup> C		
	10	Deep freezer 265 Ltr. -20 <sup>0</sup> C		
	11	P <sup>H</sup> Meter		
	12	Leaf area meter (Portable)		
	13	Lilliput Cotton Ginning Machine	12M X8 M  Each Laboratory	
	14	BOD Incubator		
	15	Conductivity Meter		
	16	Spectrophotometer		
	17	Digital oven		
	18	Auto Clave		
	19	Sohxlet Apparatus		
	20	N Analyzer		
	21	Distillation Unit		
	22	PCR Machine		
	23	Binocular Microscope		
	24	Seed analyser		
	25	Seed dividder		
	26	Muffle furanse		
	27	Digital balance		
	28	Seed counter		

## 3. Farm facilities

❖ Total Farm area in hectare : 1.00 acre

❖ Irrigated Land in hectare : 1.00 acre

### Instructional Farm and facilities available:

The department has 1 acre land and crop cafeteria for M.Sc. (Agri.) research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes shade nets, wells, tube wells etc.



Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>1.00 acre.</b>	1-Well, 1 Tube well, Sprinkler Set, Shade Net	<ul style="list-style-type: none"> <li>About 8 experiments of M.Sc. (Agri.) students are conducted every year, respectively. Crop cafeteria for the <i>Kharif</i> and <i>Rabi</i> crop</li> </ul>



**Visit of M.Sc (Agri) students at Maize and wheat research station**

**4. Workshop/Other instructional unit if any give details.**

1. department library for M.Sc. (Agri.) students
2. One well equipped seminar hall for M.Sc. (Agri.) students

**5. Theory and practical batches for the degree programme.**

M.Sc. (Agri.) Average 4 students per Year					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### • M.Sc. (Agri.) Programme

As per the lesson plan, students practical are conducted in a manner to give maximum exposure to the students for increasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of student's thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

##### Hands on training of M.Sc. (Agri.)

Details of courses offered by each department as per BSMA.

Department	Hands of Training
M.Sc. Agri. Agril. Botany (Seed Technology)	<ul style="list-style-type: none"> <li>▪ Floral biology, pollen morphology, pollen germination, pollen sterility of monocots and dicots.</li> <li>▪ Seed production in cross pollinated crops</li> <li>▪ Emasculation and pollination in cotton and corn</li> <li>▪ Visit to seed production plots</li> <li>▪ Study of general procedures of seed certification</li> <li>▪ Field inspection at diff stages of crop growth</li> <li>▪ Determination germination % seed samples</li> <li>▪ Handling of mechanical drying equipment and seed processing equipments</li> <li>▪ Handling of instruments used in seed testing laboratory.</li> <li>▪ Viability testing by tetrazolium test in different crops.</li> <li>▪ Various seed treatments their techniques and equipments required for seed treatment visit to leading Seed Company.</li> <li>▪ Demonstration of seed priming hydration and dehydration</li> <li>▪ Visit to seed company</li> <li>▪ Floral biology, pollen morphology, pollen germination, pollen sterility of monocots and dicots.</li> <li>▪ Topic analysis, Stage courage and presentation skills.</li> </ul>

M.Sc. (Agri.) as per BSMA	<ul style="list-style-type: none"> <li>▪ Identification of seed structure and biology</li> <li>▪ Study on seed germination methods and techniques</li> <li>▪ Training on identification of off type plants in different crops, Training on seed production technology of cereals. Pulses, oilseed crops</li> <li>▪ Training on identification of off type plants in different crops, Training on seed production technology of vegetable crops</li> <li>▪ Training on identification of off type plants in different crops, Training on seed production technology of fruits, flowers, spices , plantation and medicinal crops</li> <li>▪ Training on identification of off type plants in different crops, Training on seed production technology of forage, pasture and green manure crops.</li> <li>▪ Training on Seed legislation and seed certification in field crops, Training on seed production technology of cereals. Pulses, oilseed crops.</li> <li>▪ Training on minimize post-harvest losses, training on different seed storage structure.</li> <li>▪ Training on different seed testing for viability and genetic purity</li> <li>▪ Seed production technology in tree species</li> </ul>
M.Sc. Agri. (Seed Science & Technology)	

#### 6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
1	2018-19	Dr. S.V. Kalyankar	Assistant Professor	01
2		Dr. S.B. Ghuge	Associate Professor	01
1	2019-20	Dr. S.V. Kalyankar	Assistant Professor	01
2		Dr. S.B. Ghuge	Associate Professor	01
1	2020-21	Dr. S.V. Kalyankar	Assistant Professor	01
2		Dr. S.B. Ghuge	Associate Professor	01
1	2021-22	Dr. S.V. Kalyankar	Assistant Professor	01
2		Dr. S.B. Ghuge	Associate Professor	01
3		Dr.A.M. Misal	Assistant Professor	01
1	2022-23	Dr. S.B. Ghuge	Associate Professor	01
2		Dr. A.H. Rathod	Assistant Professor	01
3		Dr. S.B. Borgaonkar	Assistant Professor	01
4		Dr. A.M. Misal	Assistant Professor	01

#### Intake capacity and No. of qualified faculty (2018-19 to 2022-23)

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	M.Sc.(Agri.)	4	4
2	2019-20	M.Sc.(Agri.)	4	4
3	2020-21	M.Sc.(Agri.)	4	4
4	2021-22	M.Sc.(Agri.)	8	5
5	2022-23	M.Sc.(Agri.)	8	4

**\*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)**

#### 6.4.7 Feedback of stakeholders

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and winding machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well-equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this department.

Most of the M.Sc. (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department

#### (Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.

2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.



**6.4.8 Students intake attrition in the programme for last five years:**

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	8	2	2	2	4	4	00 (0%)	00 (0%)	00 (0%)	00 (0%)	01 (12.5%)

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)

**6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)**

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Seed Science and Technology	M.Sc.(Agri.)	Online ICAR E-courses,PPT Presentationsanduse of internet, smartphone app, etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.
- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

#### **Website**

- [www.coap.vnmkv.ac.in](http://www.coap.vnmkv.ac.in)

#### **Other digital media used**

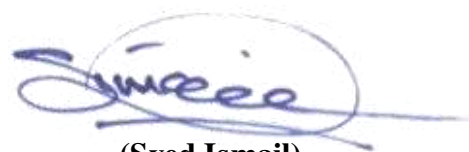
- Google Classroom, zoom meeting and WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**


**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean(Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri)**

## Appendix-I M.Sc. Students Feedback



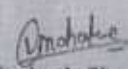
कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani





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**STUDENTS' FEEDBACK FORM**

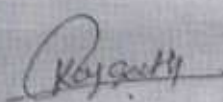
1	Name of the Student	Mahake Nijay Rajkumar		
2	Registration No	2022 A141 M		
3	Degree and Semester	M.Sc. (Agri) II <sup>nd</sup> Sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Seed Technology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature




**कृषि महाविद्यालय परभणी**  
**वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी**  
**College of Agriculture, Parbhani**  
**Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani**


**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Kayasth Suzoj Anil		
2	Registration No	2022 A/L40 M		
3	Degree and Semester	M.Sc. (Ag.) II Sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Seed Technology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

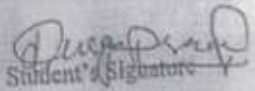
  
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**वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी**  
**College of Agriculture, Parbhani**  
**Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani**


**STUDENTS' FEEDBACK FORM**


1	Name of the Student	Laxudha Durga Prasad		
2	Registration No	2021A/49M		
3	Degree and Semester	MSc IV <sup>th</sup> semester		
4	Name of Department (for M.Sc. & Ph.D. Students)	Seed Science and Technology (Arbitary)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



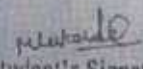


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 College of Agriculture, Parbhani  
 Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani



**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Mahesh Vithoba Lakade		
2	Registration No	2021A/48M		
3	Degree and Semester	M.Sc Agriculture / II sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	seed technology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



DEPARTMENT OF AGRICULTURAL BOTANY  
COLLEGE OF AGRICULTURE, PARBHANI  
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI- 431 402 (M.S.) INDIA



Dr. H. V. Kalpande

Ph.D. Genetics & Plant Breeding, Commonwealth Fellow 2007, UK  
Head

Email : hbot.coaphn@gmail.com

hvkalpande@gmail.com

Cell: 9850237839/7588082163

Feedback Profarma

1	Name of Student	Shele Pruthviraj Sanjay
2	Registration Number	2020 A146M
3	Discipline	Seed Technology
4	Academic year	2020-22
5	e-mail address	Pruthvirajshela16998@gmail.com
6	Mobile No.	8766491950
7	Corresponding Address	Niadyanath PG Boys Hostel Parbhani
8	Permanent address	At- Ekurake Tal. Mahol. Dist Solapur.
9	Name of the Research Guide	Dr. S.V. Kalyankar
10	Name of the Research work	Effect of alpha amylase on seed germination in mung bean
11	Feed Back	I am very glad to express my sincere gratitude to all the teaching and non teaching staff. Department of agri. Botany for their needful help all the time. A sincere thanks to Dr. H. V. Kalpande Sir. HOD Agri. Botany for providing me the laboratory to conduct my experimental observation and my research guide. Dr. S.V. Kalyankar Sir. Assistant Prof. Department of Agri Botany VNMKV Parbhani and all the committee members for their valuable guidance during research work.

Place : Parbhani

Date : 31-1-23

  
Signature

Name of student  
Shele Pruthviraj Sanjay



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Seed Science and Technology**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



Telephone No.: 02452-233 007 E-mail: adpcoap@gmail.com /adpgpbn@gmail.com

## **6.4 Self-study report for the programme: - Ph.D. (Agri.) Seed Science and Technology**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

In Seed Technology (Agril. Botany), Ph.D. degree programme started in the year 2015 with intake capacity of one students.

#### **2. Objectives**

1. To impart under graduate and post graduate instructions
2. To undertake research of postgraduate students and academic staff.
3. Planning, monitoring and review of need based and problem-oriented crop improvement research.
4. To provide technical guidance to the farmers and participation in extension activities regarding improved crop varieties and seed production.

#### **3. Accomplishments**

##### **▪ Teaching:**

Common Entrance Test (CET) is made compulsory for admissions for Ph.D. (Agri.) degree programme for quality education.

During last five years, four students successfully completed their degree programme in Ph.D (Agri.) in seed technology. The college has signed MoU with reputed institutes like ICRISAT Hyderabad, BARC Mumbai, CICR Nagpur and NIASM Baramati for giving exposure to students for their research on advanced topics. During last five years four Ph.D. (Agri.) students were placed for Govt.Services, Banking Services, Services in corporate sector, own business and farming.



College of Agriculture, VNMKV, Parbhani



**Guest lecture delivered by Dr. Vinit Kumar, Principal Scientist, IISR, ICAR, New Delhi, Topic : Marker Assisted Selection for Development of Specialty Soybean on Dt: 21.04.2023 at Department of Seed Science and Technology, College of Agriculture, VNMKV, Parbhani**



▪ **Research:**

The main mandate of the department is to impart quality agricultural education; hence the research is mainly carried out through Ph.D. (Agri.) students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. (Agri.) student. BOS is the high power body in the field of Education and Research for its policies. More than 6 theses on various research topics were submitted. Theses submitted by the students act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. Two Adhoc Research Projects in collaboration with International and National Institutes were completed.
2. One Adhoc Research projects in collaboration with International and National institutes are in progress.
3. Contribution of teaching staff in release of following nine (09) varieties / hybrids.
  - State level release of first *Kharif* Sorghum biofortified variety Parbhani Shakti (PVK 1009) (Joint AGRESCO, 2018)
  - State level release of Cotton variety PA-740 (Joint Agresco, 2018)
  - State level release of *Rabi* sorghum variety Parbhani Super Moti (SPV 2407) (Joint Agresco, 2019)
  - State level release of pigeon pea variety BDN2013-41 (Joint Agresco, 2020)
  - State level release of Cotton variety NHH44BG-2 (Joint Agresco, 2020)
  - State level release of *Rabi* sorghum variety Parbhani Vasant (PVRSG-101) (Joint Agresco, 2021)
  - State level release of Soybean variety MAUS-725 (Joint Agresco, 2021)
  - State level release of Safflower variety PBNS-154 (Joint Agresco, 2021)





**Project on “Genetic improvement of Sorghum (*Sorghum bicolor* L. Moench) for earliness and yield through induced mutations”.**

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers’ rallies and workshops and also frontline demonstration.

All faculty of the departments are actively involved and Head of Department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin krishi mosam seva) for the farmers.



**Visit of Ph.D. (Agri.) students to Soybean Research Station**



**Tree Plantation and Field Visit of Hon. Vice-Chancellor Dr. Indra Mani Sir Dt.  
02/03/2023**

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	5	1	--	16.66
2	2019-20	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	1	5	--	83
		Assistant Professor	4	2	--	33
3	2020-21	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	2	4	--	66.66
		Assistant Professor	4	2	--	33.33
4	2021-22	Head	1	--	--	0
		Professor	--	1	--	100
		Associate Professor	3	3	--	50
		Assistant Professor	5	1	--	16.66
5		Head	1	--	--	0
		Professor	1	--	--	0
		Associate Professor	3	3	--	50
		Assistant Professor	6	--	--	0

\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme

#### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned Staff*	Staff in place	Vacant position	Staff recommended by the ICAR	Deviation
1	2018-19	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2019-20	Technical (SRA/JRA/Agril.Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	4	-	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	1	-	-	-
2		Supporting including farm and filed workers	3	-	-	-

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.



#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
1	Classroom No. 1	20	Sufficient for Ph.D (Agri.) Students
2	Classroom No. 2	40	
	Seminar Hall	60	

##### 2. Laboratories



Ph.D. (Agri.) Students Working in Lab



### Laboratories

Laboratory	List of major equipment		Capacity	Remark
PG Laboratory  (1 &2)	1	Automatic/conveyer belt Leaf area meter	40 Students	Sufficient for Ph.D. (Agri.) Students
	2	Root Analyzer System		
	3	Gel documentation system		
	4	Soil Moisture Meter Model		
	5	Chlorophyll Meter Model SPAD 502		
	6	Digital Flame Photometer		
	7	Seed Germinator		
	8	Compound Microscope		
	9	Refrigerated centrifuge -8 <sup>0</sup> C		
	10	Deep freezer 265 Ltr. -20 <sup>0</sup> C		
	11	P <sup>H</sup> Meter		
	12	Leaf area meter (Portable)		
	13	Lilliput Cotton Ginning Machine	12M X8 M  Each Laboratory	
	14	BOD Incubator		
	15	Conductivity Meter		
	16	Spectrophotometer		
	17	Digital oven		
	18	Auto Clave		
	19	Sohxlet Apparatus		
	20	N Analyzer		
	21	Distillation Unit		
	22	PCR Machine		
	23	Binocular Microscope		
	24	Seed analyser		
	25	Seed dividder		
	26	Muffle furanse		
	27	Digital balance		
	28	Seed counter		

### 3. Farm facilities

- ❖ Total Farm area in hectare : 1.00 acre
- ❖ Irrigated Land in hectare : 1.00 acre

#### Instructional Farm and facilities available:

The department has a acre of land and crop cafeteria for Ph.D (Agri.) research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes shade nets, wells, tube wells etc.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>1.00 Acre</b>	1-Well, 1 Tube well, Sprinkler Set, Shade Net	<ul style="list-style-type: none"> <li>About 2 experiments of Ph.D. (Agri.) students are conducted every year, respectively. Crop cafeteria for the <i>Kharif</i> and <i>Rabi</i> crop</li> </ul>



#### 4. Workshop/Other instructional unit if any give details.

1. Department Library for Ph.D (Agri.) students
2. One well equipped seminar hall for Ph.D (Agri.) students

#### 5. Theory and practical batches for the degree programme.

Ph.D. (Agri.) Average 1 students per Year					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

#### **6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)**

##### **Disciplinewise Ph.D. Course Curriculum:**

The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

##### **Hands on training of Ph.D. (agri)**

Details of courses offered by each department as per BSMA

D. (Agri.) Agril. Botany Seed Tech	<ul style="list-style-type: none"><li>▪ Hybrid seed production of major field crops Maintenance of A; B and R lines.</li><li>▪ Determination of cost of hybrid seed production of various crops</li><li>▪ Estimation of Purity of cultivar by various chemical and biochemical test</li><li>▪ Morphological description of plant parts and plant; character expression, recording of observation and interpretation of data.</li><li>▪ Demonstration of seed quality enhancement technique in crop plant</li><li>▪ Demonstration of pollination, fertilization and seed development</li><li>▪ Studies of seed metabolism</li><li>▪ Seed germination method</li><li>▪ Method to break dormancy</li><li>▪ Various techniques to study physiological processes and to screen and assess stress responses in plants.</li><li>▪ Climate change and its effect on agriculture and monsoon and mitigation strategies.</li><li>▪ Post harvest maintenance of seed quality</li><li>▪ Effect of herbicide on physiology of weeds and crop</li><li>▪ Determination of seed storage proteins, seed viability tests and accelerated aging test</li><li>▪ Determination of molecular approaches , carbon dating technology in plant physiology</li><li>▪ Estimation of amino acids by chromatography and amino acid analyzer. Estimates of enzyme activates nucleic acid and symbiotic nitrogen fixates</li></ul>
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Ph.D. (Agri.) Seed Science and Technology as per BSMA	<ul style="list-style-type: none"> <li>▪ Hybrid seed production of major field crops Maintenance of A; B and R lines.</li> <li>▪ Determination of cost of hybrid seed production of various crops</li> <li>▪ Determination of cost of organic seed production of various crops</li> <li>▪ Morphological description of plant parts and plant; character expression, recording of observation and interpretation of data</li> <li>▪ Estimation of Purity of cultivar by various chemical and biochemical test</li> <li>▪ Demonstration of seed quality enhancement technique in crop plant</li> <li>▪ Training of germplasm conservation exploration and filed visits. DUS characterization</li> <li>▪ Demonstration of seed priming hydration and dehydration</li> <li>▪ Visit to seed company</li> <li>▪ Seed planning, Visit to seed industry</li> </ul>
--	--

#### **6.4.6 Supervision of students in Ph.D. (Agri.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
1	2018-19	Dr. D.B Deosarkar	DEE	1
	2019-20	Dr.J.E.Jahagirdar	Head	1
	2020-21	Dr.S.B Ghuge	Associate Professor	1
	2021-22	--	--	--
	2022-23	Dr.R.C.Mahajan	Associate Professor	1

#### **Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	Ph.D (Agri.)	1	2
2	2019-20	Ph.D (Agri.)	1	2
3	2020-21	Ph.D (Agri.)	1	2
4	2021-22	Ph.D (Agri.)	1	3
5	2022-23	Ph.D (Agri.)	1	3
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and vending machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this department.

Most of the Ph.D (Agri.). (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the Ph.D (Agri.) (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.



2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	1	1	1	1	--	-	00 (0%)	00 (0%)	00 (6.00%)	00 (0%)	00 (0%)

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Seed Science and Technology	Ph.D .(Agri.)	Online ICAR E-courses,PPT Presentationsanduse of internet, smartphone app, etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for Ph.D .(Agri.). (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for Ph.D .(Agri.). students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for Ph.D .(Agri.). students.
- Conducted online examination for Ph.D .(Agri.). students.
- Ph.D .(Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

#### Website

- [www.coap.vnmkv.ac.in](http://www.coap.vnmkv.ac.in)

**Other digital media used**

- Google Classroom, zoom meeting and WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean(Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



**(Syed Ismail)**  
**Dean(Agri)**

## Appendix-I Ph.D. Students Feedback



**DEPARTMENT OF AGRICULTURAL BOTANY  
COLLEGE OF AGRICULTURE, PARBHANI  
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI- 431 402 (M.S.) INDIA**



**Dr. H. V. Kalpande**

Ph.D. Genetics & Plant Breeding, Commonwealth Fellow 2007, UK  
Head

Email : [hbot.coapbn@gmail.com](mailto:hbot.coapbn@gmail.com)

[hvkalpande@gmail.com](mailto:hvkalpande@gmail.com)

Cell: 9850237839/7588082163

### Feedback Proforma

1	Name of Student	Sandeep Raasaheb Kadam
2	Registration Number	2019A110P
3	Discipline	Agril. Bot. (Seed Technology)
4	Academic year	2022-23
5	e-mail address	sandeepkadamdkv@gmail.com
6	Mobile No.	8275056680 / 9850261312
7	Corresponding Address	Agriculture Res. Station, Yavatmal
8	Permanent address	At. post. Kothra, Tq. Kalamb, Dist. Yavatmal.
9	Name of the Research Guide	Dr. J. E. Jahagirdar
10	Title of the Research work	Dormancy studies in in-situ germination mungbean.
11	Feed Back	<p>I have taken admission in this college &amp; joined on dt. 04.12.2019 for Ph.D. degree &amp; completed it on 03.02.23. Whatever the period I spent here for my degree, really it was an amazing period of my life. In this degree programme I got every help wisely from this department &amp; Agriculture college on time to time. The Hon'ble ADP, Respected Head &amp; all teachers of dept. helped me timely. I have no words to say their valuable guidance &amp; moral support. The chairman &amp; co-members of me also supported me to complete my research work &amp; everything say completion of degree. I mention here sincere thanks to all my dept. teachers &amp; non teaching staff of this department.</p> <p style="text-align: center;">Thanks!</p>

Place: Parbhani

Date: 07/02/2023

Signature

Name of student

(S.R. Kadam)



कृषि महाविद्यालय परभणी  
 वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
 College of Agriculture, Parbhani  
 Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Ingole Rahul Ramesh		
2	Registration No	2020A/07P		
3	Degree and Semester	Ph.D VI <sup>th</sup> sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Dept of Agril. Botany (Seed Tech)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Rahul*  
 Student's Signature





**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Animal Husbandry and Dairy Science**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme: M.Sc. (Agri.) Animal Husbandry and Dairy Science**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Animal Husbandry and Dairy Science, College of Agriculture, Parbhani was established in the year 1956. Further M.Sc. (Agri.) degree programme started in the year 1970.

#### **2. Objectives**

1. To impart practical training in Animal Husbandry and Dairy Science at UG and PG level.
2. To undertake basic and applied research in Animal Husbandry and Dairy Science.
3. To participate in the Animal Husbandry and Dairy Science programmes at various levels.
4. To arrange trainings, workshops and seminars in the field of Animal Husbandry and Dairy Science.
5. To build required human resource and help advancement in Animal Husbandry and Dairy Science discipline.

#### **3. Accomplishments**

##### **▪ Teaching:**

The College of Agriculture, Parbhani was established in the year 1956. M.Sc. (Agri.) degree programme was started in the year 1970. Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Agri.) degree programme for quality education.

During last five years, 50 students successfully completed their degree programme in M.Sc. (Agri.) in Animal Husbandry and Dairy Science disciplines. During last five years 50 M.Sc. (Agri.) students were placed for Higher education, Govt. Services, Banking Services, Services in corporate sector, won business and farming.

▪ **Research:**

The main mandate of this Department is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Agri.) students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) students. More than 50 theses on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need-based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

**Contribution of teaching staff in the technological recommendations: 04**

The research was conducted on the following aspects.

1. Performance of Deoni and Red Kandhari pure native cattle breed in their breeding tract and Deoni and Holdeo crossbred cattle at Cattle Cross Breeding Project.
2. Morphometric characteristics of Deoni, Red Kandhari cattle, Marathwadi buffalo and Osmanabadi goat on field scale.
3. Production and reproduction traits in Osmanabadi goat at organized farm.
4. Development of traditional dairy products by using different herbs/functional Ingredients.
5. Low cost of livestock feed.
6. Status of different livestock rearing practices.
7. Effect of traditional herbs and natural feed additives on broiler production.
8. Development of value added milk and milk products.
9. Record the performance of Murrah, Jaffarabadi and Surti buffalo at organized farm.

▪ **Extension Education:**

Extension education forms an integral part of the university functionaries. It may be regarded as the primary aim of any research or educational institute to solve the problems faced by the farmers and livestock owners of the region through the rational approach and to impart training to farmers of the region through the rational approach and to impart training to farmers/youth/women that will equip them with recent technical know-how. This fundamental principle has been taken to heart while planning and executing the activities under this department. It may be visualized through following different programmes and activities.

- a. Participation in Farmers rallies and fairs.
- b. Guiding the students under Rural Agriculture Work Experience (RAWE).
- c. Delivering radio talks.

- d. Supply of breeding bucks to the farmers.
- e. Supply of Forage crops seeds/sets.
- f. Training programmes for Rural youth / Livestock owners / women.
- g. Publication of popular Articles in regional language.
- h. Publication of books / booklets / folders etc.



**M. Sc. (Agri.) students taking observations on livestock**



**M. Sc. (Agri.) student working in laboratory**





**Training to Self help Group**



**Goat Training for farmers**



#### 6.4.2 \* Faculty strength (2018-19 to 2022-23)

Sr. No.	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation * (%)
1	2018-19	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	01	04	-	80
		Assistant Professor	02	05	-	71.42
2	2019-20	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	02	3	-	60
		Assistant Professor	03	4	-	57.14
3	2020-21	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	02	3	-	60
		Assistant Professor	03	4	-	57.14
4	2021-22	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	03	2	-	40
		Assistant Professor	03	4	-	57.14
5	2022-23	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	03	2	-	40
		Assistant Professor	03	4	-	57.14

i.

#### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Sr. No.	Year	Sanctioned staff **	Staff in Place	Vacant Position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical SRA	--	02	--	--
		JRA	--	01		
		Agril. Assitt.	03	00		
		Supporting including farm and field workers			--	--
2	2019-20	Permanent Labour	12	--		
		Contractual Lab.	29	--	--	--
		Technical SRA	--	02	--	--
2	2019-20	JRA	--	01		

		<b>Agril. Assitt.</b>	03	00		
		Supporting including farm and field workers <b>Permanent Labour</b>	12	--	--	--
3		<b>Contractual Lab.</b>	29	--	--	--
	2020-21	Technical <b>SRA</b> <b>JRA</b> <b>Agril. Assitt.</b>	-- 01 03	02 00 00	--	--
		Supporting including farm and field workers <b>Permanent Labour</b>	10	--	--	--
		<b>Contractual Lab.</b>	29	--	--	--
4	2021-22	Technical <b>SRA</b> <b>JRA</b> <b>Agril. Assitt.</b>	-- 01 03	02 00 00	--	--
		Supporting including farm and field workers <b>Permanent Labour</b>	10	--	--	--
		<b>Contractual Lab.</b>	29	--	--	--
5	2022-23	Technical <b>SRA</b> <b>JRA</b> <b>Agril. Assitt.</b>	-- 01 02	02 00 01	--	--
		Supporting including farm and field workers <b>Permanent Labour</b>	08	--	--	--
		<b>Contractual Lab.</b>	29	--	--	--

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The Department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

#### 6.4.4 Class room and Laboratories (2017-18 to 2022-23)

##### 1. Classroom

Sr. No	Classroom No	Capacity	Justify if it sufficient to the meet required
1	1	40	Yes
2	2	40	Yes
3	One well equipped seminar hall for M.Sc. (Agri.) students		

##### 2. Laboratories

Sr. No	Laboratory No	List of Major Equipment
1	UG Laboratory-1	Chaff cutter Lactometer Analytical balance Hot air oven Milk can Poultry Feeder AI vagina Castrator Tag applicator Balance 100 kg Richmond scale Desiccator Cream separator Gerber centrifuge machine
2.	Experiential Learning Programme Laboratory	1. Bulk Milk Cooler (200 lit. capacity) 2. Khoa making machine 3. Khoa polishing machine 4. Milk boiler 5. Ice cream freezer/churner 6. Milk homogenizer 7. Ageing vat 8. Paneer press machine 9. Pneumatic paneer press machine 10. Ute-tic type Deep freezer (500 lit.) 11. Ute-tic type Deep freezer (500 lit.) 12. Shrikhand preparation machine 13. Semi-automatic milk packaging machine

3.	PG Laboratory-1	1. Double distillation unit 2. Protein digestion unit 3. Protein distillation unit 4. Muffle furnace 5. Hot air oven 6. Soxhlet apparatus 7. LPG Gas
4.	PG Laboratory-2	1. BOD Incubator 2. Laminar airflow 3. Autoclave 4. Deep Freezer

### 3. Farm Facilities

Sr. No	Area	Irrigation Facilities	No of experiment conducted
01.	Total Area :13.90 ha. Cultivable Area : 11.97 ha. Uncultivable Area : 1.93	02 well	Seed and Fodder Production

### 4. Instructional units.

1. Buffalo Unit- 35 Buffaloes
2. Goat Unit- 135 Goats
3. Poultry Unit- 300 Birds
4. Fodder Cafeteria- It includes twelve different varieties of fodders

These facilities are available for Ph. D. research work.

### Revenue Receipt:

Revenue receipts from selling of Milk/Milk products/Livestock Auction/FYM & Others			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
1	2018-19	14.04	14.04
2	2019-20	11.50	11.50
3	2020-21	16.61	16.61
4	2021-22	26.93	26.93
5	2022-23	18.41	18.41
	<b>Total</b>	<b>71.20</b>	<b>87.49</b>

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### • M.Sc. (Agri.) Programme

As per the lesson plan, students practical are conducted in a manner to give maximum exposure to the students for increasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the

student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

### **Department Wise Course Curriculum of M.Sc. (Agri.)**

Details of courses offered by each department as per BSMA.

<b>Department of Animal Husbandry and Dairy Science</b>	
<b>M.Sc. (Agri.) Animal Husbandry</b>	<ul style="list-style-type: none"><li>▪ To acquaint with the management practices of livestock</li><li>▪ To develop sustainable livestock production</li><li>▪ To acquaint with different breeding policies</li><li>▪ To improve the livestock through breeding strategies.</li><li>▪ To study the importance of nutrients in animal nutrition.</li><li>▪ To develop the balance ration for different animals</li><li>▪ To know the behaviour of different animals</li><li>▪ To study the sexual behaviour of animals</li><li>▪ To study the mammary glands of different livestock</li><li>▪ To know the role of hormones in mammary gland development and lactation</li><li>▪ To study the importance of poultry production</li><li>▪ To develop entrepreneurship through poultry farming</li><li>▪ To know the nutrients requirement for different physiological categories of animals.</li><li>▪ To formulate the least cost ration for different categories of animals</li><li>▪ To evaluate the nutritive values of different feeds and fodder</li><li>▪ To identify the anti-nutritional factors present in feed and fodders</li><li>▪ To know different breeds of sheep and goat</li><li>▪ To acquaint with the management practices of sheep and goat.</li><li>▪ To know the quantitative characters of farm animals</li><li>▪ Topic analysis, Stage courage and presentation skills.</li></ul>
<b>BSMA M.Sc. (Agri.) Livestock Production and Management</b>	<ul style="list-style-type: none"><li>▪ To acquaint with the management practices of livestock</li><li>▪ To develop sustainable livestock production</li><li>▪ Analysis of various farm record for economic evaluation</li><li>▪ Computation of ration</li><li>▪ Project preparation for commercial farm</li></ul>



	<ul style="list-style-type: none"> <li>▪ Preparation of project for commercial farming.</li> <li>▪ Daily and periodical farm operations</li> <li>▪ Study of practical housing management</li> <li>▪ Visit modern weather for cast station</li> <li>▪ Measurement of temperature, Relative humidity.</li> <li>▪ To know the behaviour of different animals</li> <li>▪ To study the sexual behaviour of animals</li> <li>▪ Preparation of various functional Indian traditional dairy products</li> <li>▪ Micro heating of Indian traditional dairy products for shelf extension</li> <li>▪ Visit modern integrated livestock farming units.</li> <li>▪ Critical analysis of different sub units.</li> <li>▪ Planning and handling of business record.</li> <li>▪ Cost benefit analysis</li> <li>▪ Preparing project for financing.</li> <li>▪ Observation and recording of poultry farm and management</li> <li>▪ Waste management</li> <li>▪ Marketing of products</li> <li>▪ Management of livestock throughout year in different climatic conditions.</li> <li>▪ Collection of packaging material</li> <li>▪ Preparation of album</li> <li>▪ Application of O<sub>2</sub> scavengers</li> <li>▪ Quality control and inspections of feed materials.</li> <li>▪ Preparation of silage.</li> <li>▪ Visit to feed plant</li> <li>▪ Preparation of feed.</li> <li>▪ Techniques of disposal of farm waste.</li> <li>▪ Microscopic evaluation of water on dairy farm.</li> <li>▪ Topic analysis ,Stage courage and presentation</li> </ul>
<b>M.Sc. (Agri.) Dairy Science</b>	<ul style="list-style-type: none"> <li>▪ To study the dairy industry and its status.</li> <li>▪ To study the procurement of Milk</li> <li>▪ To learn the techniques of processing for preparation of different milk products.</li> <li>▪ To study the impact of processing on milk and milk products</li> <li>▪ To know the indigenous method for milk product preparation.</li> <li>▪ To improve the indigenous method of milk products preparation.</li> <li>▪ To study different constituents of milk</li> <li>▪ To study the interaction effect of milk constituents during processing</li> <li>▪ To study detail physic-chemical properties of milk constituents of milk</li> <li>▪ To understand the physic-chemical changes occurred in milk and milk products during processing</li> <li>▪ To study the different microbes present in milk and milk products</li> <li>▪ To study method of milk preservation.</li> <li>▪ To study the importance of milk by products</li> <li>▪ To develop the techniques for utilization of milk by-products.</li> <li>▪ To study the different packaging techniques and packaging materials.</li> <li>▪ To enhance the functionality and shelf life through packaging techniques.</li> <li>▪ To acquaint with the different quality standards applicable for milk products.</li> <li>▪ To prepare the milk products by adopting quality control measures for exporting indigenous milk products.</li> </ul>

<b>BSMA M.Sc. (Agri.) Dairy Science</b>	<ul style="list-style-type: none"> <li>▪ To study the dairy industry and its status.</li> <li>▪ To study the procurement of Milk</li> <li>▪ Visit to UHT processing Plant.</li> <li>▪ Cleaning and sanitization efficiency of dairy equipment.</li> <li>▪ Preparation of various functional Indian traditional dairy products</li> <li>▪ Micro heating of Indian traditional dairy products for shelf extension</li> <li>▪ Evaluating functional properties of milk proteins.</li> <li>▪ To acquaint with the management practices of livestock</li> <li>▪ To develop sustainable livestock production</li> <li>▪ Analysis of various farm record for economic evaluation</li> <li>▪ Computation of ration</li> <li>▪ Project preparation for commercial farm</li> <li>▪ Determination of fat, protein, lactose, buffering capacity and Ph.</li> <li>▪ Collection of packaging material</li> <li>▪ Preparation of album</li> <li>▪ Application of O<sub>2</sub> scavengers</li> <li>▪ Determination of soluble and insoluble fibre.</li> <li>▪ Determination of antioxidant activity.</li> <li>▪ Preparation of functional food.</li> <li>▪ Manufacture of different types of cheese</li> <li>▪ Rheology of milk gel</li> <li>▪ Grading of raw milk on SPC, coliform and dye reduction test.</li> <li>▪ Microbial evaluation of burfi, peda, cream, butter and panner</li> <li>▪ Test for mastitis milk</li> <li>▪ Visit modern integrated livestock farming units.</li> <li>▪ Critical analysis of different sub units.</li> <li>▪ Information of different integrated farming system</li> <li>▪ Topic analysis, Stage courage and presentation</li> </ul>
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#### 6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Animal Science &amp; Dairy Science</b>				
1	2018-19	Dr. B. M. Thombre	Head	02
2		Dr. G. K. Londhe	Professor	04
3		Dr. D. S. Chauhan	Associate Professor	01
4		Dr. S. G. Narwade	Associate Professor	02
5		Dr. A. T. Shinde	Assistant Professor	01
6		Dr. D. V. Bainwad	Assistant Professor	02
1	2019-20	Dr. G. K. Londhe	Professor & Head	02
2		Dr. D. S. Chauhan	Professor	02
3		Dr. S. G. Narwade	Associate Professor	01
4		Dr. D. V. Bainwad	Assistant Professor	02
5		Dr. R.A. Patil	Assistant Professor	02
1	2020-21	Dr. G. K. Londhe	Professor & Head	02

2		Dr. D. S. Chauhan	Professor	01
3		Dr. S. G. Narwade	Associate Professor	02
4		Dr. D V. Bainwad	Assistant Professor	02
5		Dr. R.A. Patil	Assistant Professor	02
1	2021-22	Dr. G. K. Londhe	Professor & Head	03
2		Dr. D. S. Chauhan	Professor	01
3		Dr. S. G. Narwade	Associate Professor	03
4		Dr. B. V. Bainwad	Associate Professor	01
5		Dr. R.A. Patil	Assistant Professor	02
6		Dr. N.S. Kamble	Assistant Professor	01
1	2022-23	Dr. G. K. Londhe	Professor & Head	02
2		Dr. S. G. Narwade	Associate Professor	02
3		Dr. B. V. Bainwad	Associate Professor	01
4		Dr. R.A. Patil	Assistant Professor	02
5		Dr. N.S. Kamble	Assistant Professor	02
6		Dr. S. S. Deshmukh	Assistant Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	M.Sc.(Agri.)	12	04
2	2019-20	M.Sc.(Agri.)	12	04
3	2020-21	M.Sc.(Agri.)	12	05
4	2021-22	M.Sc.(Agri.)	12	05
5	2022-23	M.Sc.(Agri.)	12	05 02 Teaching Associate

**6.4.7 Feedback of stakeholders**

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Advisory Meeting Phone calls Farewell programme Orientation programme	Advisory Meeting, Farewell programme and Orientation programme were conducted
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students' parents meeting was conducted by respective advisors	Parents were informed about the academic progress

		every semester.	of their wards.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
5	Farmers	Extension activities such as farmer rallies, exhibition, field visit training, group discussion and board of studies	Guided to Farmers and SHG in Agri exhibition melawa, training to farmers about goat rearing & preparation of value added dairy products.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of Degree Programme	Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	12	09	11	11	12	11	25	8.25	8.25	0	8.25

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. Department has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Animal Husbandry and Dairy Science	M.Sc.(Agri.)	PPT Presentations and use of internet,CD preparation as per course etc.

- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.

- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Other digital media used**

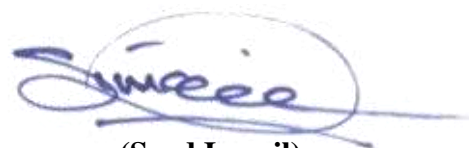
- Google Classroom and WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All-India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri.)**




## Appendix-I

### M.Sc. Students Feedback



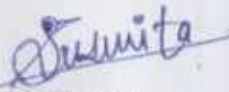
कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Surve Susmita Samadhan		
2	Registration No	2021 A / 84 M		
3	Degree and Semester	MSc. Agri. IV <sup>th</sup> Semester		
4	Name of Department (for M.Sc. & Ph.D. Students)	Animal Husbandry & Dairy Science.		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



कृषि महाविद्यालय परभणी  
 वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
 College of Agriculture, Parbhani  
 Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	Aundhkar Pranav Suresh Rao		
2	Registration No	2022 A/71 M		
3	Degree and Semester	M.Sc. Agri (Dairy Science) (II <sup>nd</sup> Sem)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Department of AHDS (Dairy Science)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Aundhkar  
 Student's Signature  
 [Aundhkar. P.S]  
 Reg No - 2022 A/71 M



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Aundhkar Pranav Suresh Rao		
2	Registration No	2022 A/71 M		
3	Degree and Semester	M.Sc. Agri (Dairy Science) (II <sup>nd</sup> Sem)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Department of AHDS (Dairy Science)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Aundhkar  
Student's Signature  
[Aundhkar P.S]  
Reg No - 2022 A/71 M



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Animal Husbandry and Dairy Science**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



Telephone No.: 02452-233 007 E-mail: adpcoap@gmail.com /adpgpbn@gmail.com

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## **6.4 Self-study report for the programme Ph.D. (Agri.)**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Animal Husbandry and Dairy Science, College of Agriculture, Parbhani was established in the year 1956. Further Ph.D. (Agri.) degree programme started in the year 1978.

#### **2. Objectives**

1. To impart practical training in Animal Husbandry and Dairy Science at PG and Ph. D. level.
2. To undertake basic and applied research in Animal Husbandry and Dairy Science.
3. To participate in the Animal Husbandry and Dairy Science programmes at various levels.
4. To arrange trainings, workshops and seminars in the field of Animal Husbandry and Dairy Science.
5. To build required human resource and help advancement in Animal Husbandry and Dairy Science discipline.

#### **3. Accomplishments**

##### **▪ Teaching:**

The Department of Animal Husbandry and Dairy Science, Parbhani was established in the year 1956. Ph.D. (Agri.) degree programme was started in the year 1978. Common Entrance Test (CET) is made compulsory for admissions for Ph.D. (Agri.) degree programme for quality education.

During last five years, 11 students successfully completed their degree programme in Ph.D. (Agri.) in Animal Husbandry and Dairy Science disciplines. During last five years 11 Ph.D. (Agri.) students were placed for Govt. Services, Banking Services, Services in corporate sector, own business and farming.

▪ **Research:**

The main mandate of this Department is to impart quality agricultural education; hence the research is mainly carried out through Ph.D. (Agri.) students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. (Agri.) students. BOS is the high power body in the field of Education and Research for its policies. More than 11 thesis on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

**Contribution of teaching staff in the technological recommendations: 04**

The research was conducted on the following aspects.

1. Performance of Deoni and Red Kandhari pure native cattle breed in their breeding tract and Deoni and Holdeo crossbred cattle at Cattle Cross Breeding Project.
2. Morphometric characteristics of Deoni, Red Kandhari cattle, Marathwadi buffalo and Osmanabadi goat on field scale.
3. Production and reproduction traits in Osmanabadi goat at organized farm.
4. Development of traditional dairy products by using different herbs/functional Ingredients.
5. Research on replacement of antibiotics by natural feed additives in poultry production.
6. Status of different livestock rearing practices.
7. Effect of traditional herbs and natural feed additives on broiler production.
8. Development of value added milk and milk products.
9. Record the performance of Murrah, Jaffarabadi and Surti buffalo at organized farm.

▪ **Extension education:**

Extension education forms an integral part of the university functionaries. It may be regarded as the primary aim of any research or educational institute to solve the problems faced by the farmers and livestock owners of the region through the rational approach and to impart training to farmers of the region through the rational approach and to impart training to farmers/youth/women that will equip them with recent technical know-how. This fundamental principle has been taken to heart while planning and executing the activities under this department. It may be visualized through following different programmes and activities.



- a. Participation in Farmers rallies and fairs.
- b. Guiding the students under Rural Agriculture Work Experience (RAWE).
- c. Delivering radio talks and TV programme.
- d. Supply of pedigreed bulls/bucks and other breeding materials.
- e. Supply of Forage crops seeds/sets.
- f. Rural youth / Livestock owners / women training programmes.
- g. Articles in local language publications.
- h. Publication of books / booklets / folders etc.



**Ph. D. (Agri.) students working in laboratory**



**Ph. D. (Agri.) student taking observations of livestock**













**Ph. D. (Agri.) student taking observations of livestock**

**6.4.2 \* Faculty strength (2018-19 to 2022-23)**

Sr. No.	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation * (%)
1	2018-19	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	01	04	-	80
		Assistant Professor	02	05	-	71.42
2	2019-20	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	01	4	-	80
		Assistant Professor	02	5	-	71.42
3	2020-21	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	02	3	-	60
		Assistant Professor	04	3	-	42.86
4	2021-22	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	03	2	-	40
		Assistant Professor	03	4	-	57.14
5	2022-23	Head	01	-	-	0
		Professor	01	-	-	0
		Associate Professor	03	2	-	40
		Assistant Professor	03	4	-	57.14

**\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme**



**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Sr. No.	Year	Sanctioned staff **	Staff in Place	Vacant Position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical				
		<b>SRA</b>	--	02	02	100
		<b>JRA</b>	--	01	01	100
		<b>Agril. Assitt.</b>	03	00	03	00
2	2019-20	Supporting including farm and field workers				
		<b>Permanent Labour</b>	12	--	--	--
		<b>Contractual Lab.</b>	29	--	--	--
3	2020-21	Technical				
		<b>SRA</b>	--	02	02	100
		<b>JRA</b>	01	00	01	00
		<b>Agril. Assitt.</b>	03	00	03	00
4	2021-22	Supporting including farm and field workers				
		<b>Permanent Labour</b>	10	--	--	--
		<b>Contractual Lab.</b>	29	--	--	--

		<b>Labour</b>				
		<b>Contractual Lab.</b>	29	--	--	--
5	2022-23	Technical				
		<b>SRA</b>	--	02	02	100
		<b>JRA</b>	01	00	01	00
		<b>Agri. Assitt.</b>	02	01	03	33.33
		Supporting including farm and field workers				
		<b>Permanent Labour</b>	08	--	--	--
		<b>Contractual Lab.</b>	29	--	--	--

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The Department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Animal Husbandry &amp; Dairy Science</b>			
1	Classroom No. 1	40	Sufficient for Ph.D. (Agri.) Students
2	Classroom No. 2	40	

#### Laboratories

Laboratory	List of major equipment		Capacity	Remark
<b>Department of Animal Husbandry &amp; Dairy Science</b>				
<b>PG Lab-1</b>	1	Double distillation unit	40	Sufficient for Ph.D. Agri. students
	2	Protein digestion unit		
	3	Protein distillation unit		
	4	Muffle furnace		
	5	Hot air oven		
	6	Soxhlet apparatus		
	7	Gas		
<b>PG Lab-2</b>	1	BOD Incubator	40	
	2	Laminar airflow		
	3	Autoclave		
	4	Deep Freezer		

**9. Farm facilities**

Sr. No	Area	Irrigation Facilities	No of experiment conducted
01.	Total Area :13.90 ha. Cultivable Area : 11.97 ha. Uncultivable Area : 1.93	02 well	Seed and Fodder Production

**4. Instructional units.**

1. Buffalo Unit- 35 Buffaloes
2. Goat Unit- 135 Goats
3. Poultry Unit- 300 Birds
4. Fodder Cafeteria- It includes twelve different varieties of fodders

These facilities are available for Ph. D. research work.

**Revenue Receipt:**

Department of AHDS Revenue receipts of the selling of Milk /Livestock Auction/FYM & Others			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
1.	2018-19	14.04	14.04
2	2019-20	11.50	11.50
3	2020-21	05.62	05.62
4	2021-22	22.93	22.93
5	2022-23	17.11	17.11
	<b>Total</b>	<b>71.20</b>	<b>71.20</b>

**4. Workshop/Other instructional unit if any give details.**

➤ **Department of Animal Husbandry and Dairy Science**

1. Computer laboratory for Ph.D. students
2. One well equipped seminar hall for Ph.D. students

**5. Theory and practical batches for the degree programme.**

Ph.D. (Agri.) Average 3 students for this Department					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	PracticalBatch	Theory Batch	PracticalBatch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### Disciplinewise Ph.D. Course Curriculum:

The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

Department	Hands on training
Ph.D.(Agri.) Animal Husbandry	<ul style="list-style-type: none"> <li>▪ Formulations of least cost feeds for livestock</li> <li>▪ Computer application in dairy farm management</li> <li>▪ Determination of culling levels and selection intensity in livestock</li> <li>▪ Evaluation of nutrients from pasture</li> <li>▪ Artificial rumen techniques</li> <li>▪ Studies of commercial broiler and layer farm Grading of eggs</li> <li>▪ Organic fodder production</li> <li>▪ Feeding of livestock for organic products</li> <li>▪ Methods of identification of sheep and goat</li> <li>▪ Rearing of sheep and goat for meat production</li> <li>▪ Topic analysis, Stage courage and presentation skills.</li> </ul>

Ph.D. (Agri.) Livestock Production Manegment	<ul style="list-style-type: none"> <li>▪ Preparation of Layout &amp; Design for construction of shed of various sizes in different agroclimatic zones</li> <li>▪ Organization of milking machine</li> <li>▪ Project report preparation for commercial dairy farms.</li> <li>▪ Sheep &amp; goat judging- BCS.</li> <li>▪ Score card &amp; grading of wool.</li> <li>▪ Project report preparation for commercial sheep &amp; goat dairy farms.</li> <li>• Recent advances in shelter manahement practices under the impending climate change scenario</li> <li>▪ Acquaintence with organic livestockproduction, economics &amp; marketing of organic livestockproducts</li> <li>▪ Bankable project for dairy enterprize</li> <li>▪ Visiting to incubation center</li> <li>▪ GPS/GIS application in the exploration of breeding tracts of livestock.</li> <li>▪ Protein Sequencing.</li> <li>▪ Preparation of feed block, TMR</li> <li>▪ Hydroponics</li> <li>▪ Performance study of poultry birds.</li> <li>▪ Project proposal to bring research funding from external agency.</li> <li>▪ Topic analysis ,Stage courage and presentation skills</li> </ul>
Ph.D. (Agri.) Dairy Science	<ul style="list-style-type: none"> <li>▪ Manufacture of new dairy products</li> <li>▪ Use of modern machineries for preparation of dairy products</li> <li>▪ Production of starter culture</li> <li>▪ Preservation of starter culture</li> <li>▪ Application of sterilization treatment to milk</li> <li>▪ Determination of total plate count / Coliform count at production site</li> <li>▪ Utilization of artificial sweetners in indigenous milk products</li> <li>▪ Utilization of fat replacer in indigenous milk products</li> <li>▪ Manufacture of value added products in laboratory based on fruits, vegetables, cereals, herbals, spices etc.</li> <li>▪ Estimation of shelf life of various packaging material / system</li> <li>▪ Demonstration of vacuum packaging for milk and milk products</li> <li>▪ Production of Biogas from fruit and vegetable waste</li> </ul>
Ph.D. (Agri.) Dairy Science	<ul style="list-style-type: none"> <li>▪ GPS/GIS application in the exploration of breeding tracts of livestock.</li> <li>▪ Project proposal to bring research funding from external agency.</li> <li>▪ Application of bio-preservative, encapsulation of microorganism</li> <li>▪ Topic analysis ,Stage courage and presentation skills</li> <li>▪ Topic analysis ,Stage courage and presentation skills</li> </ul>



**6.4.6 Supervision of students in Ph.D. Agri. degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Animal Science &amp; Dairy Science</b>				
1	2018-19	Dr. B. M. Thombre	Head	01
2		Dr. G. K. Londhe	Professor	02
1	2019-20	Dr. B. M. Thombre	Associate Dean & Principal	01
2		Dr. G. K. Londhe	Professor & Head	02
3		Dr. S. G. Narwade	Associate Professor	01
1	2020-21	Dr. G. K. Londhe	Professor & Head	03
2		Dr. D. S. Chauhan	Professor	02
3		Dr. S. G. Narwade	Associate Professor	02
1	2021-22	Dr. G. K. Londhe	Professor & Head	02
2		Dr. D. S. Chauhan	Professor	02
3		Dr. S. G. Narwade	Associate Professor	02
4		Dr. B. V. Bainwad	Associate Professor	01
1	2022-23	Dr. G. K. Londhe	Professor & Head	03
2		Dr. D. S. Chauhan	Professor	02
3		Dr. S. G. Narwade	Associate Professor	03
4		Dr. B. V. Bainwad	Associate Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	Ph.D.(Agri.)	03	02
2	2019-20	Ph.D.(Agri.)	03	03
3	2020-21	Ph.D.(Agri.)	03	03
4	2021-22	Ph.D.(Agri.)	03	04
5	2022-23	Ph.D.(Agri.)	03	04

**6.4.7 Feedback of stakeholders****(Students, parents, industries, employers, farmers etc) (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Advisory Meeting Phone calls Farewell programme Orientation programme	Advisory Meeting, Farewell programme and Orientation programme were conducted
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
5	Farmers	Extension activities such as farmer rallies, exhibition, field visit, training, group discussion and board of studies	Guided to Farmers and SHG in Agri exhibition, melawas, training to farmers about goat rearing & preparation of value added dairy products.

**6.4.8 Students intake attrition in the programme for last five years:**

Name of Degree Programme	Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
Ph.D. (Agri.)	03	03(01 Inservice)	04(01 Inservice)	01	03		0	0	66.66	0	

**6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)**

The ICT is now integral part of the teaching programme. Department has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Animal Husbandry and Dairy Science	Ph. D. (Agri.)	PPT Presentations and use of internet, CD preparation as per course etc.

- Internet facilities available for Ph. D. (Agri.) students for assessing research articles, referencing research journals, thesis etc.

- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for Ph. D..(Agri.)students during COVID-19 situations
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for Ph. D..(Agri.)students.
- Ph. D. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Other digital media used**

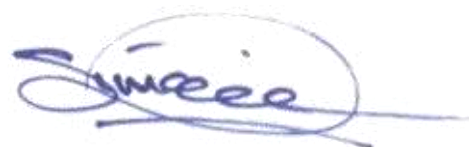
- Google Classroom and WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**


**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)  
Dean (Agri.)**

## Appendix-I Ph.D. Students Feedback




कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Shinde shrikant shahaji		
2	Registration No	2018A/12P		
3	Degree and Semester	Ph.D (VI <sup>th</sup> Sem.)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Animal Husbandry		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Student's Signature  
  
 [Shinde. S.S.]  
 Reg. No - 2018A/12P



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Waghmare S. S. Sampat		
2	Registration No	2021 A/17-P		
3	Degree and Semester	Ph.D (Agriculture) 3em		
4	Name of Department (for M.Sc. & Ph.D. Students)	AHD's Ph.D		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Student's Signature  
(Waghmare S.S.)  
2021 A/17-P





**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Agricultural Economics**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme:- M.Sc. (Agri.)**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The College of Agriculture, Parbhani was established in the year 1956. Further M.Sc. (Agri.) degree programme in Discipline of Agricultural Economics started in the year 1970.

#### **1. Objectives**

1. To educate, train and generate experts in the field of agricultural Economics education and develop human resource.
2. To develop demand driven teaching for Agricultural Economics in general and for the region in particular.
3. To develop agricultural cost-efficient technologies & net profit-oriented approach for farmers
4. To carry out need based as well as applied research in Agricultural Economics and to transfer agricultural cost-efficient technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the profit-oriented technologies for agro-based small scale industries.

#### **2. Accomplishments**

##### **▪ Teaching:**

The College of Agriculture, Parbhani was established in the year 1956 M.Sc. (Agril. Economics) degree programme was started in the year 1970. Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Agri.) degree programme for quality education.

During last five years, 63 students successfully completed their degree programme in M.Sc. (Agril. Economics). During last five years 37 M.Sc. (Agri. Economics) students were placed for Higher education, Govt. services, Banking Services, Services in corporate sector, won business and farming.

▪ **Research:**

The main mandate of the Department is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Agri.) students. Faculty members are submitting their research in AGRESO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) students. BOS is the high-power body in the field of Education and Research for its policies. More than 61 Thesis on various research topics were submitted. Thesis submitted by the student's act as a basic and applied information resource to the various need-based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESO conducted by four SAU's. After discussion in JOINT AGRESO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

Head of the departments is actively involved and acts as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin Krishi mosam seva) for the farmers.

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No.	Academic Year	Designation	Sanctioned position	Faculty in position	Vacant position
1	2018-19	Head	01	-	01
		Professor	01	01	-
		Associate Professor	05	02	03
		Assistant Professor	02	01	01
		Assistant Professor (Adhoc)	-	01	-
2	2019-20	Head	01	-	01
		Professor	01	01	-
		Associate Professor	05	02	03
		Assistant Professor	02	01	01
		Assistant Professor (Adhoc)	-	01	-
3	2020-21	Head	01	-	01
		Professor	01	01	-
		Associate Professor	05	03	02
		Assistant Professor	02	01	01
		Assistant Professor (Adhoc)	-	01	-
4	2021-22	Head	01	01	-
		Professor	01	01	-
		Associate Professor	05	03	02
		Assistant Professor	02	-	02
		Assistant Professor (Adhoc)	-	03	-
5	2022-23	Head	01	01	-
		Professor	01	01	-
		Associate Professor	05	03	02
		Assistant Professor	02	-	02
		Assistant Professor (Adhoc)	-	04	-

#### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non-teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-

#### **6.4.4 Class room and Laboratories (2018-19 to 2022-23))**

The Department has created excellent educational atmosphere for the students by providing well equipped computer labs, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

Department of Agril. Economics			
1	Classroom No. 1	40	Sufficient for M.Sc. (Agri.) Students
2	Classroom No. 2	40	

Department of Agril. Economics				
PG Lab-1	1	Practical Classes	40 students 30 X 40	
Computer Lab	1	Practical Classes & Analysis		



Computer Lab

**4. Workshop/Other instructional unit if any give details.**

- **Department of Agril. Economics**
  1. Computer laboratory for M.Sc. (Agri.) students
  2. One well equipped seminar hall for M.Sc. (Agri.) students
  3. Department Library



Department Library



**Theory and Practical batches for the degree Programme.**

M.Sc. (Agri.) Average 13 Students Department					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
2022-23					
1	2+0	2	0	2	0
2	2+0	2	0	2	0
3	2+1	2	1	2	1
4	1+1	1	1	1	1
5	2+1	2	1	2	1
6	1+0	1	0	1	0
7	1+1	1	1	1	1
8	2+1	2	1	2	1
9	2+1	2	1	2	1
10	1+0	1	0	1	0
11	0+3	0	3	0	3
12	1+1	1	1	1	1
13	0+7	0	7	0	7
14	0+1	0	1	0	1
15	0+10	0	10	0	10

#### 6.4.5 Department-wise Course Curriculum of M.Sc. (Agri.)

Details of courses offered by each department as per BSMA.

<b>Department of Agril. Economics</b>	
<b>M.Sc. (Agri.) Agricultural Economics</b> M.Sc. (Agri.) as per BSMA	<ul style="list-style-type: none"> <li>▪ Micro Economic Theory and Applications</li> <li>▪ Macro Economics and Policy</li> <li>▪ Agricultural Finance and Project Management</li> <li>▪ Research Methodology for Social Sciences</li> <li>▪ Fundamentals of Agricultural Economics</li> <li>▪ Agricultural Finance and Cooperation</li> <li>▪ Agricultural Production Economics</li> <li>▪ Agricultural Marketing &amp; Price Analysis</li> <li>▪ Econometrics</li> <li>▪ Agricultural Development and Policy Analysis</li> <li>▪ Linear Programming</li> <li>▪ International Economics</li> </ul>

**6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
1	2018-19	Dr. K. V. Deshmukh	Head	05
2		Dr. D. S. Perke	Professor	04
3		Dr. S. R. Nagargoje	Associate Professor	03
4		Dr. J. L. Katkade	Associate Professor	02
5		Dr. S. S. More	Associate Professor	02
1	2019-20	Dr. K. V. Deshmukh	Head	02
2		Dr. D. S. Perke	Professor	04
3		Dr. S. R. Nagargoje	Associate Professor	03
4		Dr. J. L. Katkade	Associate Professor	02
5		Dr. S. S. More	Associate Professor	01
6		Dr. R. V. Chavan	Associate Professor	01
1	2020-21	Dr. K.V. Deshmukh	Head	03
2		Dr. D. S. Perke	Professor	03
3		Dr. S. R. Nagargoje	Associate Professor	03
4		Dr. S. S. More	Associate Professor	02
5		Dr. R. V. Chavan	Associate Professor	04
1	2021-22	Dr. D. S. Perke	Professor & Head	05
2		Dr. S. S. More	Associate Professor	04
3		Dr. R. V. Chavan	Associate Professor	04
1	2022-23	Dr. D. S. Perke	Professor & Head	03
2		Dr. S. S. More	Associate Professor	03
3		Dr. R. V. Chavan	Associate Professor	04

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and winding machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations. They are also satisfied with the facilities of department, smart classrooms and well-equipped computer lab. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the M.Sc. (Agri.) students of this college are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on Impact of the major crops of this region.

**6.2.8 Students intake attrition in the programme for last five years:**

Name of degree programme	Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
<b>Ph.D. (Agri.)</b>	70	12	12	13	14	14	2 (14.28 %)	2 (14.28%)	1 (7.14%)	0 (0 %)	0 (0 %)
*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)											
**Intake of Ph.D. degree from the academic year 2016-17											

#### **6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)**

The ICT is now integral part of the teaching programme. Department has also promoting the use of ICT in teaching and practical

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Agril. Economics	M.Sc.(Agri.)	Google / Zoom Meet

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures were arranged for M.Sc. (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.
- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from**

**ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



**(Syed Ismail)**  
**Dean (Agri.)**

➤ Appendix-I  
➤ M.Sc. Students Feedback

कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani

STUDENTS' FEEDBACK FORM

1	Name of the Student	HALESH.R		
2	Registration No	2081A/SHM		
3	Degree and Semester	IV Agriculture Economics (M.Sc.)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agricultural Economics		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

HALESH.R  
Student's Signature





VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH  
**Department of Agricultural Economics**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme Ph.D. (Agri.)**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The College of Agriculture, Parbhani was established in the year 1956. Further Ph.D. (Agri.) degree in Discipline of Agricultural Economics programme was started in 1978.

#### **2. Objectives**

1. To educate, train and generate experts in the field of agricultural Economics education and develop human resource.
2. To develop demand driven teaching for Agricultural Economics in general and for the region in particular.
3. To develop agricultural cost-efficient technologies & net profit oriented approach for farmers
4. To carry out need based as well as applied research in Agricultural Economics and to transfer agricultural cost-efficient technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the profit-oriented technologies for agro-based small scale industries.

#### **3. Accomplishment**

##### **▪ Teaching:**

The College of Agriculture, Parbhani was established in the year 1956. Ph.D. degree programme was started in the year 1978. Common Entrance Test (CET) is made compulsory for admissions to Ph.D. degree programme for quality education.

During last five years, 23 students successfully completed their degree programme in Ph.D. (Agri.) in various disciplines. During last five years 17 Ph.D. students were placed for respectively for Higher education, Govt. Services, Banking Services, Services in corporate sector, won business and farming.

▪ **Research:**

The main mandate of the Department is to impart quality agricultural Economics education; hence the research is mainly carried out through Ph.D. students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. students. BOS is the high power body in the field of Education and Research for its policies. More than 23 theses on various research topics were submitted. Thesis submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

Head of the departments is actively involved and act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin Krishi mosam seva) for the farmers.

**6.4.2 Faculty strength (2018-19 to 2022-23)****Details of Faculty Strength (2018-19 to 2022-23)**

<b>Sr. No</b>	<b>Academic Year</b>	<b>Designation</b>	<b>Sanctioned position</b>	<b>Faculty in position</b>	<b>Vacant position</b>
1	2018-19	Head	01	-	01
		Professor	01	01	-
		Associate Professor	05	02	03
		Assistant Professor	02	01	01
		Assistant Professor (Adhoc)	-	01	-
2	2019-20	Head	01	-	01
		Professor	01	01	-
		Associate Professor	05	02	03
		Assistant Professor	02	01	01
		Assistant Professor (Adhoc)	-	01	-
3	2020-21	Head	01	-	01
		Professor	01	01	-
		Associate Professor	05	03	02
		Assistant Professor	02	01	01
		Assistant Professor (Adhoc)	-	01	-
4	2021-22	Head	01	01	-
		Professor	01	01	-
		Associate Professor	05	03	02
		Assistant Professor	02	-	02
		Assistant Professor (Adhoc)	-	03	-
5	2022-23	Head	01	01	-
		Professor	01	01	-
		Associate Professor	05	03	02
		Assistant Professor	02	-	02
		Assistant Professor (Adhoc)	-	04	-

\* The faculties mentioned above are allotted for B.Sc., M.Sc. & Ph.D. Degree programme

**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	-	-	-	-

**\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) &Ph.D. (Agri.) students for conducting field survey, practicals and demonstrations.**

**6.4.4 Class room and Laboratories (2018-19 to 2022-23)**

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

## 1. Classroom



Seminar Hall

Department of Agril. Economics				
1	Classroom No. 1	40	Sufficient for M.Sc. (Agri.) Students	
2	Classroom No. 2	40		

## 2. Laboratories

Department of Agril. Economics				
PG Lab-1	1	Practical Classes	40 students	
Computer Lab	1	Practical Classes & Analysis	30 X 40	

## 3. Farm facilities – Nil

## 4. Workshop/Other instructional unit if any give details.

### ➤ Department of Agril. Economics

1. Computer laboratory for Ph.D. (Agri.) students
2. One well equipped seminar hall for Ph.D. (Agri.) students



## 5. Theory and practical batches for the degree programme.

Ph.D. (Agri.) Average 3 students per department					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

### Conduct of practical and hands on training: (2018-19 to 2022-23)

#### Discipline wise Ph.D. Course Curriculum:

The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

#### 6.4.5 Department-wise Course Curriculum of Ph.D. (Agri.)

Details of courses offered by each department as per BSMA.

Department of Agril. Economics	
Ph.D. (Agri.) Agricultural Economics Ph.D. (Agri.) as per BSMA	<ul style="list-style-type: none"> <li>Advanced Micro Economic Analysis</li> <li>Advanced Macro Economic Analysis</li> <li>Advanced Production Economics</li> <li>Advanced Agricultural Marketing and Price Analysis</li> <li>Operations Research</li> <li>Research and Publication Ethics</li> <li>Advanced Econometrics</li> <li>Environmental Economics</li> </ul>

**6.4.6 Supervision of students in Ph.D. Agri. degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Agril. Economics</b>				
1	2018-19	Dr. K. V. Deshmukh	Head	01
2		Dr. S. R. Nagargoje	Associate Professor	02
1	2019-20	Dr. K. V. Deshmukh	Head	01
2		Dr. S. R. Nagargoje	Associate Professor	01
1	2020-21	Dr. K.V. Deshmukh	Head	01
1	2021-22	Dr. D. S. Perke	Professor & Head	01
1	2022-23	Dr. D. S. Perke	Professor & Head	02
2		Dr. S. S. More	Associate Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	Ph.D.(Agri.)	3	4
2	2019-20	Ph.D.(Agri.)	3	4
3	2020-21	Ph.D.(Agri.)	3	5
4	2021-22	Ph.D.(Agri.)	4	4
5	2022-23	Ph.D.(Agri.)	4	4
*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and winding machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt

was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the PG students of this college are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research. Most of the Ph.D. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on Impact of the major crops of this region.

#### **6.4.8 Students intake attrition in the programme for last five years:**

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
<b>Ph.D. (Agri.)</b>	17	1	3	3	4	4	2 (66.66 %)	0 (0 %)	0 (0 %)	0 (0 %)	0 (0 %)
*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)											
**Intake of Ph.D. degree from the academic year 2016-17											

#### **6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)**

The ICT is now integral part of the teaching programme. College has also promoted the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Agril. Economics	Ph.D.(Agri.)	Google / Zoom Meet

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Agricultural Economics.
- Internet facilities available for Ph.D. students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.

- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Conducted online examination for Ph.D. students.
- Ph.D. classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Website**

- [www.coap.vnmkv.ac.in](http://www.coap.vnmkv.ac.in)

**Other digital media used**

- Google Classroom, WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**


**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri.)**

## Appendix-I Ph.D. Students Feedback



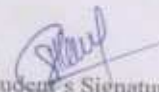
कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani



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### STUDENTS' FEEDBACK FORM

1	Name of the Student	Hadelikar Sachin Bapurao		
2	Registration No	2022 A / 1119		
3	Degree and Semester	II Sem. Ph.D.		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agril. Economics		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature





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वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani




STUDENTS' FEEDBACK FORM


1	Name of the Student	Iohar S.S		
2	Registration No	2022A/12P		
3	Degree and Semester	Ph.D. 3 <sup>rd</sup>		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agril. Economics		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Signature*

Student's Signature



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani



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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Pratyush Kumari Rath		
2	Registration No	2022 A 13 P		
3	Degree and Semester	1st Sem, Ph.D Agril. Econ.		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agricultural Economics.		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Pr. Rath.  
Pratyush Kumari Rath.  
Student's Signature



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Agril. Meteorology, Parbhani**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme:- M.Sc. (Agri.)**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

Government of Maharashtra sanctioned the scheme as establishment of department of Agricultural Meteorology at Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani during the year 1972. The Post Graduate degree programme in this discipline was sanctioned and started during 2005-06 at College of Agriculture, Latur and transferred at College of Agriculture, Parbhani during 2009-10.

#### **2. Objectives**

- To impart higher education and research in the discipline of Agril. Meteorology.
- Planning, monitoring and review of need-based crop improvement research.
- Technical advice to the farmers and participation in various extension activities.

#### **3. Accomplishments**

##### **■ Teaching:**

- Faculty members worked as programme officer for RAWE programme.
- Faculty members engaged in teaching courses of PG and PhD (Agril. Meteorology).



**Practical Surface Agrometeorological observatory**

▪ **Research:**

Completion of M.Sc. (Agri.) programme research on field and data based etc.

- Collection and analysis of Agromet database for the region.
- Characterization of agro-climate and crop-weather relation for productivity of major crops.
- Establish crop-weather relationships for the major crops in this region.
- Study on the influence of weather on the incidence and spread of pest and diseases of field crops.
- Preparation of Crop Weather Calender.
- Crop simulation models.



**PG student's research trails**

▪ **Extension education:**

- The staff of this department is actively participating in extension activities viz; farmers rally, Agricultural exhibitions, training programmes, monthly meetings, field visits etc. organized by Director of Extension Education and state Agril. Department
- Preparation and dissemination of weather based advisory bulletins to the farmers.
- Conducted awareness programmes to the farmers about the Agro Meteorological Services and climate change.
- Faculties delivered lectures on different aspects of Agricultural Meteorology in AIR, TV and different medias.

Faculty members are actively engaged as SMS in shetkari melawa and farmer's group discussions organised by the University and also contributed in Agro Advisory Services (gramin krishi mosam seva) for the farmers.



### कृषि क्षेत्रात सौर ऊर्जेचा वापर. मौजे इटलापुर ता. जि. परभणी

कृषि महाविद्यालय वनामकुवि, परभणी आणि निकरा, कृषि हवामानशास्त्र प्रकल्प अंतर्गत कृषि पदवीच्या सातव्या सत्राच्या ग्रामीण जागरूकता कार्यक्रमातगत मौजे इटलापुर ता. जि. परभणी येथे दिनांक 24.08.2023 रोजी सौर ऊर्जा विज पंपास भेट देण्यात आली. याप्रसंगी सहयोगी अधिष्ठाता तथा प्राचार्य डॉ. सय्यद इस्माईल, कार्यक्रम समन्वयक तथा विभाग प्रमुख डॉ. राजेश कदम यांच्या मार्गदर्शनात कृषि मित्रांनी इटलापुर येथे शेतकऱ्यांच्या शेतात सौर ऊर्जा विज पंपास भेट दिली. यावेळी कार्यक्रमाचे आयोजन गृह संशोधन प्रकल्प प्रमुख डॉ. एस. एम. उमादे तसेच कार्यक्रम अधिकारी डॉ. संदीप बडगजर, डॉ. आसमान खोब्रागडे यांनी केले. सर्व भेटीत शेतकरी उपस्थित होते. कार्यक्रम यशस्वी पार पाडण्यासाठी श्री. रामकृष्ण माने यांचे सहकार्य लाभले.



### Dissemination of Agromet advisory Bulletin



### Celebration of World Meteorological Day 23rd march, 2023



### Scientist and PG student's in research trails



#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No.	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation** (%)
1	2018-19	Professor	00	01	--	100
2		Associate Professor	01	00	--	00
3		Assistant Professor	02	00	--	00
1	2019-20	Professor	01	00	--	00
2		Associate Professor	00	01	--	100
3		Assistant Professor	02	00	--	00
1	2020-21	Professor	01	00	--	00
2		Associate Professor	01	00	--	00
3		Assistant Professor	02	01	--	50
1	2021-22	Professor	01	00	--	00
2		Associate Professor	01	00	--	00
3		Assistant Professor	02	00	--	00
1	2022-23	Professor	01	00	--	00
2		Associate Professor	01	00	--	00
3		Assistant Professor	02	00	--	00

\* The faculties mentioned above are allotted courses of M.Sc. (Agri.) & Ph.D. (2022-23) (Agril. Meteorology) Degree programme.

\*Other faculty (2018-19 to 2022-23):

Sr. No.	Year	Type of faculty	Name & Designation	Office Address	Courses offered of M.Sc.
	<b>Part time Deputed</b>			--	--
1	2018-19 to 2020-21	Research	Dr. K. K. Dakore, Asstt. Professor	AICRP on Agrometeorology, VNMKV, Parbhani	AGM 503, AGM 505, AGM 507, AGM 509 AGM 510 PGS 506
2	2019-20	Principal, ATS, Jalna	Dr. P. R. Jaybhaye Asso. Professor	Principal, ATS, Jalna, VNMKV, Parbhani	AGM 503, AGM 505, AGM 507,

### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR for M.Sc. Agri. intake	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	
2		Supporting including farm and field workers	4	4	--	
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	
2		Supporting including farm and field workers	4	4	--	
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	
2		Supporting including farm and field workers	4	4	--	
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	
2		Supporting including farm and field workers	4	4	--	
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	
2		Supporting including farm and field workers	4	4	--	

#### \*Other faculty (2018-19 to 2022-23):

Sr. No.	Year	Type of faculty	Name & Designation	Office Address	Nature of work
	<b>Part time Deputed</b>			--	--
1	2018-19 to 2022-23	Research	Shri.A.A.Shaikh, Agril. Asstt.	AICRP on Agrometeorology, VNMKV, Parbhani	Assisted for conducting research trials of students.

### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

#### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Agril. Meteorology</b>			
1	Classroom No. 1	20	Sufficient for M.Sc. (Agri.) Students

## 2. Laboratories



### M.Sc. (Agri.) students working in laboratory and experimental field

#### Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Agril. Meteorology				
Agrometeorological observatory	1	Surface agrometeorological instruments	15	Sufficient for Students
	2	Five computers in lab with internet.		
	3	Line quantum sensors, Net Radiometer, Leaf Area Meter, Infra red thermometer, Hot air oven, Automatic weather station,		
One computer lab	1	Meteorological observatory instruments		
	2	Automatic weather station		
Field laboratory	3	Leaf Area Meter		
	4	Line quantum sensor		
Experinatal farm	5	Infra red thermometer		
	6	Hot air oven		
	7	Weighing balance		
	8	Lux meter		
	9	Whirling Psychrometer		

### 3. Farm facilities

Sr. No.	Area	Irrigation facilities	No. of experiment conducted
1.	3.22 ha	2 bore wells	10

#### Instructional Farm and facilities available:

The department field land 3.22ha land for M.Sc. (Agri.) research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm. Agrometeorological instruments, radiation instrument are available on the field laboratory which is used for M.Sc. (Agri.) research trials conducted on instructional farms.



**4. Workshop/Other instructional unit if any give details.****➤ Department of Agril. Meteorology**

1. Computer laboratory for M.Sc. and Ph.D. (Agril. Met.) students

**5. Theory and practical batches for the degree programme.**

<b>M.Sc. (Agri.) Average 12 students per year</b>					
<b>Sr. No.</b>	<b>Credit</b>	<b>Group-I</b>		<b>Total</b>	
		<b>Theory Batch</b>	<b>Practical Batch</b>	<b>Theory Batch</b>	<b>Practical Batch</b>
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

**6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)****• M.Sc. (Agri.) Programme**

- Skill that can only be learn through hands on practice.
- Learning material in any given course should be provided in a ways that allowed students to get as involved as possible to increase their knowledge and ability:
- Learning material provided in different ways i.e. hand written material, Reference books, internet facilities through computer lab and university library.
- Clearly mention how for students are getting desired practical and hands on training as per the curriculum and meeting above mentioned requirements.

As per the lesson plan, students practical are conducted in a manner to give maximum exposure to the students forincreasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.



BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

**Hands of training M.Sc. (Agri.)**

Details of courses offered by each department as per BSMA.

Department	Hands of training
<b>Department of Agril. Meteorology</b>	
<b>M.Sc. (Agri.) Agril. Meteorology</b>	<ul style="list-style-type: none"><li>▪ To record the weather parameters and analysed the data.</li><li>▪ Computer based analysis, crop weather analysis.</li><li>▪ Analysis of climatic normal.</li><li>▪ Preparation of crop weather calendar.</li><li>▪ Preparation of weather based agro-advisories.</li><li>▪ Use of automatic weather station.</li><li>▪ Micrometeorological measurements in crop canopies</li><li>▪ Determination of ET and computation by different methods.</li><li>▪ Study the crop microclimate.</li><li>▪ Working principle of different weather instruments.</li><li>▪ Computation interpretation of data using different instruments.</li><li>▪ Computation and comparison of ET by different methods.</li><li>▪ Measurement and evaluation of radiation components.</li><li>▪ Crop weather modelling analysis</li><li>▪ Validation and DSSAT modal and Infocrop modal</li><li>▪ Analysis of weather parameter using weather cock modal</li><li>▪ Weather modification for agriculture.</li><li>▪ Drought and mitigation techniques.</li><li>▪ Analysis of vegetation indices.</li><li>▪ Types and components of remote sensing and GIS.</li><li>▪ Topic analysis, Stage courage and presentation skills.</li></ul>

**6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
Department of Agril. Meteorology				
1	2018-19	Prof.M.G.Jadhav	Professor	02
2		Prof.P.R.Jaybhaye	Asso. Professor	02
3		Dr.K.K.Dakhore	Asst. Professor	02
4		Prof.A.M.Khobragade	Asst. Professor	02
1	2019-20	Prof.M.G.Jadhav	Professor	02
2		Prof.P.R.Jaybhaye	Asso. Professor	02
3		Dr.K.K.Dakhore	Asst. Professor	03
1	2020-21	Prof.M.G.Jadhav	Professor	02
2		Prof.P.R.Jaybhaye	Asso. Professor	01
3		Dr.K.K.Dakhore	Asst. Professor	03
4		Prof.G.N.Gote	Asst. Professor	01
1	2021-22	Prof.M.G.Jadhav	Professor	02
2		Prof.P.R.Jaybhaye	Asso. Professor	01
3		Dr.K.K.Dakhore	Asst. Professor	03
4		Prof.G.N.Gote	Asst. Professor	02
1	2022-23	Prof.M.G.Jadhav	Professor	01
2		Prof.P.R.Jaybhaye	Asso. Professor	02
3		Dr.A.M.Khobragade	Asst. Professor	02
4		Prof.G.N.Gote	Asst. Professor	02
5		Dr.K.K.Dakhore	Asst. Professor	03
Other Faculty allotted to Agril. Meteorology students				
	2018-19	Dr.W.N. Narkhede	Professor	01
		Dr.A.K.Gore	Asso. Professor	01
		Dr. V.K.Khargkharate	Asso. Professor	01
		Prof.P.K. Waghmare	Asst. Professor	01
		Dr.M.P.Jagtap	Asst. Professor	01
	2019-20	Prof.P.K. Waghmare	Asst. Professor	01
		Dr.M.P.Jagtap	Asst. Professor	01
		Dr.B. V.Asewar	Professor	01
		Dr.D.C.Lokhande	Asso. Professor	01
	2020-21	Dr. V.K.Khargkharate	Asso. Professor	01
		Prof.P.K. Waghmare	Asst. Professor	01
		Dr.M.P.Jagtap	Asst. Professor	01
		Dr.S.U.Pawar	Asst. Professor	01
		Dr. V.B.Awasarmal	Asso. Professor	01
	2021-22	Dr.S.P.Kausalya	Asst. Professor	01
		Dr.M.P.Jagtap	Asst. Professor	01
		Dr.S.U.Pawar	Asst. Professor	01
		Dr.S.B.Pawar	Asso. Professor	01
	2022-23	--	--	--

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of Degree Programme</b>	<b>Intake capacity*</b>	<b>No. of qualified faculty</b>
1	2018-19	M.Sc.(Agri.)	12	03
2	2019-20	M.Sc.(Agri.)	12	05
3	2020-21	M.Sc.(Agri.)	13	04
4	2021-22	M.Sc.(Agri.)	13	04
5	2022-23	M.Sc.(Agri.)	12	05
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. preparation for competitive examinations, farm. They are also satisfied with the facilities of this department. Most of the M.Sc. (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	<ul style="list-style-type: none"><li>For UG Advisory system</li><li>For PG SAC and Research guide system</li><li>Students counselling and placement cell</li></ul>	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
2	Parents	Parents meeting at department /college level	Telephonic communication to parents regarding academic and research progress. Telephonic communication by advisor to student's parents.
3	Industries	During the visit to university/ AIA attachment final year students.	Action taken as per the suggestion
4	Employers	--	--
5	Farmers	<ul style="list-style-type: none"><li>Through AGRESCO, ZREAC meeting</li><li>Through GKMS Project</li></ul>	Provided agromet weather based bulletin through different channel.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	12	12	11	13	13	10*	0	8.33	0	0	0

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Agril. Meteorology	M.Sc.(Agri.) and PhD (2022-23)	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app, etc.

- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Agricultural Meteorology.
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- One LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.
- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

#### Android apps

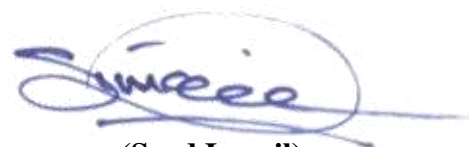
- Damini – for lightning alert
- Meghdoot- weather based Agromet advisory for cropping condition

**6.4.10** The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.

**6.4.11** Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

**6.4.12** Certificate (Applicable when SSR is submitted for programme)


I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agriculture)**



## Appendix-I M.Sc. Students Feedback



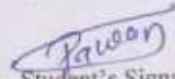
कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



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### STUDENTS' FEEDBACK FORM

1	Name of the Student	Pawar Kumar (ICAR)		
2	Registration No	2022A/113M		
3	Degree and Semester	B.Tech.		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agricultural meteorology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Mali Sandhya Kirtikumar		
2	Registration No	2021A21/M		
3	Degree and Semester	M.Sc. Agri IV Sem (Agril. Meteorology)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agril. Meteorology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Student's Signature



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	MAHUDE SWAPNALI VISHNU		
2	Registration No	2020 A/21M		
3	Degree and Semester	M.Sc. (Agri) IV (Sem)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agricultural Meteorology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied

*Mahude*  
15.04.24  
Student's Signature





कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	CHOUGULE ANKUSH BHARAT		
2	Registration No	2020A/1711		
3	Degree and Semester	M.Sc IV <sup>th</sup> sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agril. Meteorology.		
5	Departmental Library facilities, (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied

*Chougule*  
15/04/23

- Student's Signature



VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH  
**Department of Agril. Meteorology, Parbhani**  
**College of Agriculture, Parbhani**  
PARBHANI - 431 402 [MAHARASHTRA]



## 6.4 Self-study report for the programme:- Ph.D. (Agri.)

### 6.4.1 Brief history of degree programme

#### 1. Year of start

Government of Maharashtra sanctioned the scheme as establishment of Agricultural Meteorology at Vasantryao Naik Marathwada Krishi Vidyapeeth, Parbhani during the year 1972 and doctoral programme started during the year 2022-2023.

#### 2. Objectives

- To impart higher education and research in the discipline of Agril. Meteorology.
- Planning, monitoring and review of need based crop improvement research.
- Technical advice to the farmers and participation in various extension activities.

#### 3. Accomplishments

##### ■ Teaching:

- Ph.D. degree programme was started in the year 2022-23.
- Faculty members engaged in teaching courses of PhD (Agril. Meteorology).
- Common Entrance Test (CET) is made compulsory for admissions to Ph.D. degree programme.

##### ■ Research:

On going PhD. (Agri.) programme research on field and data based etc.

- Collection and analysis of Agromet database for the region.
- Characterization of agro-climate and crop-weather relation for productivity of major crops.
- Establish crop-weather relationships for the major crops in this region.
- Study on the influence of weather on the incidence and spread of pest and diseases of field crops.
- Preparation of Crop Weather Calender.
- Validation of DSSAT/ Infocrop modal



▪ **Extension education:**

- The staff of this department is actively participating in extension activities viz; farmers rally, Agricultural exhibitions, training programmes, monthly meetings, field visits etc. organized by Director of Extension Education and state Agril. Department
- Preparation and dissemination of weather based advisory bulletins to the farmers.
- Conduction of awareness programmes to the farmers about the Agro Meteorological Services and climate change.

Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (Gramin Krishi Mousam Seva) for the farmers.



**Visit of Agronomist and Agrometeorologist to PhD research trails.**

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

Sr. No.	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation** (%)
1	2018-19	Professor	00	01	--	100
2		Associate Professor	01	00	--	00
3		Assistant Professor	02	00	--	00
1	2019-20	Professor	01	00	--	00
2		Associate Professor	00	01	--	100
3		Assistant Professor	02	00	--	00
1	2020-21	Professor	01	00	--	00
2		Associate Professor	01	00	--	00
3		Assistant Professor	02	01	--	50
1	2021-22	Professor	01	00	--	00
2		Associate Professor	01	00	--	00
3		Assistant Professor	02	01	--	50
1	2022-23	Professor	01	00	--	00
2		Associate Professor	01	00	--	00
3		Assistant Professor	02	00	--	00

\* The faculties mentioned above are allotted for MSc. and Ph.D (2022-23) (Agril. Meteorology) Degree programme.

#### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR for M.Sc. Agri. intake	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	

2		Supporting including farm and field workers	4	4	--	
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	
2		Supporting including farm and field workers	4	4	--	
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	
2		Supporting including farm and field workers	4	4	--	
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	
2		Supporting including farm and field workers	4	4	--	
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	1	2	--	
2		Supporting including farm and field workers	4	4	--	

**\* Above Technical / supporting staff are engaged in assisting B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.**

**\*Other faculty (2018-19 to 2022-23):**

Sr. No.	Year	Type of faculty	Name & Designation	Office Address	Nature of work
	<b>Part time Deputed</b>			--	--
1	2018-19 to 2022-23	Research	Shri.A.A.Shaikh, Agril. Asstt.	AICRP on Agrometeorology, VNMKV, Parbhani	Assisted for conducting research trials of students.

#### **6.4.3 Class room and Laboratories (2018-19 to 2022-23)**

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Agril. Meteorology</b>			
1	Classroom No. 1	20	Sufficient for Ph.D Students

### 2. Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Agril. Meteorology				
<b>Agrometeorological observatory</b>  <b>One computer lab</b>  <b>Field laboratory</b>  <b>PG Field laboratory</b>	1	Surface agrometeorological instruments	02	Sufficient for PhD. (Agri.) Students
	2	Five computers in lab with internet.		
	3	Line quantum sensors, Net Radiometer, Leaf Area Meter, Infra red thermometer, Hot air oven, Automatic weather station,		
	1	Meteorological observatory instruments		
	2	Automatic weather station		
	3	Leaf Area Meter		
	4	Line quantum sensor		
	5	Infra red thermometer		
	6	Hot air oven		
	7	Weighing balance		
	8	Lux meter		
	9	Whirling Psychrometer		

### 3. Farm facilities:

#### Instructional Farm and facilities available:

The department field land 3.22ha land for M.Sc. (Agri.) research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm. Agrometeorological instruments, radiation instrument are available on the field laboratory which is used for M.Sc. (Agri.) research trials conducted on instructional farms.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Agril. Meteorology</b>		
3.22 ha	2 bore wells	10



Field visit of Agonomist and Agrometeorologist for PhD research



#### 4. Workshop/Other instructional unit if any give details.

##### ➤ Department of Agril. Meteorology

1. One Computer laboratory for PhD (Agril. Met.) students

#### 5. Theory and practical batches for the degree programme.

M.Sc. (Agri.) Average 12 students per year					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01



#### **6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)**

- **PhD (Agri.) Programme (2022-23)**

- Skill that can only be learned through hands on practice.
- Learning material in any given course should be provided in a way that allowed students to get as involved as possible to increase their knowledge and ability:
- Learning material provided in different ways i.e. hand written material, Reference books, internet facilities through computer lab and university library.
- Clearly mention how for students are getting desired practical and hands on training as per the curriculum and meeting above mentioned requirements.

As per the lesson plan, students practical are conducted in a manner to give maximum exposure to the students for increasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PhD student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

**Department Hands of training PhD. (Agri.)**

Details of courses offered by each department as per BSMA.

Department	Hands of training
<b>Department of Agril. Meteorology</b>	
<b>PhD. (Agri.) Agril. Meteorology</b>	<ul style="list-style-type: none"> <li>▪ To record the weather parameters and analysed the data.</li> <li>▪ Computer based analysis, crop weather analysis.</li> <li>▪ Analysis of climatic normal.</li> <li>▪ Preparation of crop weather calendar.</li> <li>▪ Preparation of weather based agro-advisories.</li> <li>▪ Use of automatic weather station.</li> <li>▪ Micrometeorological measurements in crop canopies</li> <li>▪ Determination of ET and computation by different methods.</li> <li>▪ Study the crop microclimate.</li> <li>▪ Working principle of different weather instruments.</li> <li>▪ Computation interpretation of data using different instruments.</li> <li>▪ Computation and comparison of ET by different methods.</li> <li>▪ Measurement and evaluation of radiation components.</li> <li>▪ Crop weather modelling analysis</li> <li>▪ Validation and DSSAT modal and Infocrop modal</li> <li>▪ Analysis of weather parameter using weather cock modal</li> <li>▪ Weather modification for agriculture.</li> <li>▪ Drought and mitigation techniques.</li> <li>▪ Analysis of vegetation indices.</li> <li>▪ Types and components of remote sensing and GIS.</li> <li>▪ Topic analysis, Stage courage and presentation skills.</li> </ul>

**6.4.6 Supervision of students in PhD (Agri.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Agril. Meteorology</b>				
1	2018-19	-	-	--
1	2019-20	-	-	--
1	2020-21	-	-	--
1	2021-22	-	-	-
1	2022-23	Dr.M.G.Jadhav	Professor	01 (On going)
2		Dr.P.R.Jaybhaye	Asso. Professor	01 (On going)

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	PhD(Agri.)	--	--
2	2019-20	PhD(Agri.)	--	--
3	2020-21	PhD(Agri.)	--	--
4	2021-22	PhD(Agri.)	--	--
5	2022-23	PhD(Agri.)	02	02
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. preparation for competitive examinations, farm. They are also satisfied with the facilities of this department. Most of the PhD. (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	<ul style="list-style-type: none"> <li>For PG/PhD SAC and Research guide system</li> <li>Students counselling and placement cell</li> </ul>	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
2	Parents	Parents meeting at department /college level	Telephonic communication to parents regarding academic and research progress. Telephonic communication by advisor to student's parents.
3	Industries	During the visit to university/ AIA attachment final year students.	Action taken as per the suggestion
4	Employers	--	--
5	Farmers	<ul style="list-style-type: none"> <li>Through AGRESKO, ZREAC meeting</li> <li>Through GKMS Project</li> </ul>	Provided agromet weather based bulletin through different channel.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
PhD Agril.Met	02	-	-	-	-	02	-	-	-	-	0
*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)											

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Agril. Meteorology	PhD (2022-23)	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app, etc.

- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for PhD. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Agricultural Meteorology.
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- One LCD projectors available
- Online lectures are arranged for PhD (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for PhD. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.
- PhD. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

#### Android apps

- Damini – for lightning alert
- Meghdoot- weather based Agromet advisory for cropping condition

**Illuminators**

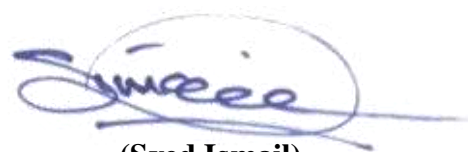
- IPM of Cotton
- IPM of Soybean
- IPM of pigeon pea

**6.4.10** The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.

**6.4.11** Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

**6.4.12** Certificate (Applicable when SSR is submitted for programme)

I **Dr. Syed Ismail**, Dean, College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



**(Syed Ismail)**  
**Dean (Agriculture)**



## Appendix-I Students Feedback




कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

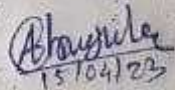
1	Name of the Student	KALE ANJALI SUBHASH		
2	Registration No	2022A106P		
3	Degree and Semester	Ph.D & II sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agricultural Meteorology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied

  
Student's Signature


**कृषि महाविद्यालय परभणी**  
**वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी**  
 College of Agriculture, Parbhani  
 Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani

**STUDENTS' FEEDBACK FORM**

1	Name of the Student	CHOUGULE ANKUSH BHARAT		
2	Registration No	2023 A/07 P		
3	Degree and Semester	Ph.D 1 <sup>st</sup> sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agricultural Meteorology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied

  
 Student's Signature





कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	MAHUDE SWAPNALI VISHNU		
2	Registration No	2023 A/08 P		
3	Degree and Semester	PhD (Agri) I (Sem)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agricultural Meteorology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research/Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied

*Maहुदे*  
15.4.24  
Student's Signature



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Agricultural Entomology**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme:- M.Sc. (Agri.)**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Agricultural Entomology, Parbhani was established in the year 1970. Further M.Sc. (Agri.) degree programme started in the year 1972.

#### **2. Objectives**

1. To educate, train and generate experts in the field of Agricultural Entomology and develop human resource.
2. To conducts studies related to all aspects of ecology related to insect-borne diseases.
3. detecting the role of insects in the spread of disease and discovering ways of protecting food and fiber crops, and livestock from being damaged.
4. To study the way beneficial insects contribute to the well being of humans, animals, and plants.
5. To carry out studies on the identification and taxonomy of vectors and evaluate the status of the associated group of insects.
6. It helps Agricultural Entomologists to protect valuable resources from insect pests and also in the studies of biodiversity.

#### **3. Accomplishments**

##### **▪ Teaching:**

The Department of Agricultural Entomology, Parbhani was established in the year 1956. M.Sc. (Agri.) degree programme was started in the year 1970. Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Agri.) degree programme for quality education.

During last five years, 68 students successfully completed their degree programme in M.Sc. (Agri.) in various disciplines.

▪ **Research:**

The main mandate of the College is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Agri.) students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of Studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) students. BOS is the high power body in the field of Education and Research for its policies. More than 892 thesis on various research topics were submitted. These submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

Apiary Unit has been established at Department of Entomology since 2019 at present we were maintaining three *species* domesticated of honey bees viz, *Apis mellifera*, *Apis cerana indica* and *stingless bees* during 2020-21 Two trainings were organized on beekeeping for entrepreneurs through ICAR SC-SP. Training are also conducted in collaboration with ATMA, State department of Agriculture, KIVB and some NGO like GVT. Every year Department of Entomology is celebrating "World Honey Bee day" on 20<sup>th</sup> May to create awareness among students, researchers and farmers.

▪ **Extension**

Crop pest surveillance and Advisory Project (**CROPSAP**) was initiated in 2009-10 and continued in 2022-23 to create awareness in farmers regarding incidence of pests and diseases of cotton, soybean, tur, maize (*Kharif / Rabi*), jawar (*Kharif / Rabi*), sugarcane and gram. In this project training was imparted to staff of the State Agril. Department and pest surveillance. The data collected by surveillance staff was analyzed and advisories were issued twice a week. Also the university scientists were regularly visited hot spot areas and gave management strategies. This project had created great awareness among farmers and they were benefited by increasing yield by timely proper pest management. It is the first time in India to implement such type of project on large scale. The data on pest incidence was recorded regularly and the advisory was issued immediately in order to manage the pests at proper time.



Horticulture Crop Pest Surveillance and Advisory Project (**HORTSAP**) was initiated in 2014 to create awareness in farmers regarding incidence of pests and diseases of Sweet Orange and Okra. In this project training was imparted to State Agricultural Department staff and pest surveillance staff.

Ek Diwas Balirajasathi activity implemented by department of Entomology for various pest management on farmer's field.

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	01	00	--	0
		Professor	00	01	--	100
		Associate Professor	04	04	--	50
		Assistant Professor	04	00	--	0
2	2019-20	Head	01	00	--	0
		Professor	01	00	--	0
		Associate Professor	04	04	--	50
		Assistant Professor	04	00	--	0
3	2020-21	Head	01	00	--	0
		Professor	01	00	--	0
		Associate Professor	03	05	--	63
		Assistant Professor	04	00	--	0
4	2021-22	Head	01	00	--	0
		Professor	01	00	--	0
		Associate Professor	03	05	--	63
		Assistant Professor	04	00	--	0
5	2022-23	Head	01	00	--	0
		Professor	01	00	--	0
		Associate Professor	03	05	--	63
		Assistant Professor	03	01	--	25

\* The faculties mentioned above are allotted for M.Sc. (Agri.) Degree programme

**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this Department are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by	Deviation*
1	2018-19	Technical (Agril. Asstt.)	1	0	-	-
		Supporting including farm and field workers	9	0	-	-
2	2019-20	Technical (Agril. Asstt.)	2	0	-	-
		Supporting including farm and field workers	6	0	-	-
3	2020-21	Technical (Agril. Asstt.)	2	0	-	-
		Supporting including farm and field workers	5	0	-	-
4	2021-22	Technical (Agril. Asstt.)	2	0	-	-
		Supporting including farm and field workers	4	0	-	-
5	2022-23	Technical (Agril. Asstt.)	2	0	-	-
		Supporting including farm and field workers	4	0	-	-

\* Above Technical / supporting staff are helping M.Sc. (Agri.) students for conducting field trials, practicals and demonstrations.

**6.4.4 Class room and Laboratories (2018-19 to 2022-23)**

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

**1. Classroom**

Sr. No.	Classroom No.	Capacity	Justify if it sufficient to the meet required
<b>1. Classrooms At department of Agricultural Entomology, Parbhani</b>			
1	Lecture Hall No. 1	40	Sufficient for M.Sc. (Agri.) Students
2	Lecture Hall No. 2	40	

## 2. Laboratories



**M.Sc. (Agri.) Students experiment in Laboratory**



**Classroom**

**Laboratories**

Laboratory	List of major equipment		Capacity	Remark
Department of Agril. Entomology				
PG Laboratory - 1	1	Insect Boxes	40	Sufficient for M.Sc. (Agri.) Students
	2	Insect Collecting Net		
	3	Honey Extractor		
	4	Bee Hive		
	5	Other apiculture Instruments		
	6	Steroscopic Zoom Microscope		
PG Laboratory – 2	1	Dissection Material	40	Sufficient for M.Sc. (Agri.) Students
	2	Binocular Microscope		
	3	Insect Boxes		
	4	Insect Collecting Net		
PG Laboratory - 3	1	Laminar Air Flow	40	Sufficient for M.Sc. (Agri.) Students
	2	Autoclave		
	3	BOD		
	4	Centrifuge		
	5	Hot Air Oven		
	6	Refrigerator		

**1. Farm facilities**

- ❖ **Total Farm area in hectare :** 2.51 ha
- ❖ **Irrigated Land in hectare :** 2.51 ha.

**Instructional Farm and facilities available:**

The department has 2.51 ha land and crop cafeteria for M.Sc. (Agri.) research work, for conduct of practicals purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes shade nets, wells, tube wells etc. The most important instruments, equipments available on the department farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Agril. Entomology</b>		
<b>2.51 ha.</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 bore wells.	<ul style="list-style-type: none"> <li>About 13 experiments of M.Sc. (Agri.) students are conducted every year respectively crop cafeteria for the <i>khari</i> and <i>Rabi</i> crop</li> </ul>

**Revenue receipts generated by Department of Agril. Entomology from various sources (Product Testing, Sale of Bio-Control Products & Farm produce etc)**

<b>Revenue receipts generated by Department of Agril. Entomology from various sources (Product Testing, Sale of Bio-Control Products &amp; Farm produce etc)</b>				
Sr. No.	Year	Receipt Received Rs.(Lakh)		Total
		Product Testing	Bio-Control Production	
1.	2018-19	1.65	0.13	1.78
2.	2019-20	2.81	0.62	3.43
3.	2020-21	--	1.16	1.16
4.	2021-22	6.12	5.96	12.08
5.	2022-23	--	0.14	0.14
<b>Total</b>				<b>18.59</b>

**4. Workshop/Other instructional unit if any give details.**➤ **Department of Agril. Entomology**

1. Research laboratory for M.Sc. (Agri.) students
2. One well equipped seminar hall for M.Sc. (Agri.) students

**5. Theory and practical batches for the degree programme.**

<b>M.Sc. (Agri.) Average 12 students Entomology department</b>					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01

**6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)**• **M.Sc. (Agri.) Programme**

As per the lesson plan, students practicals are conducted in a manner to give maximum exposure to the students for increasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credits are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.



- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.



**Demonstration on handling Honey bee at Departmental Apiary Unit**

## Hands on training of M.Sc. (Agri.)

### Details of courses offered by each department As per BSMA

Department	Hands of training
<b>Department of Agril. Entomology</b>	
<b>M.Sc. (Agri.) Agril. Entomology</b>	<ul style="list-style-type: none"> <li>▪ Preparation of Permanent mounts of Insect appendages</li> <li>▪ Type of Immature stages</li> <li>▪ Preparation of Artificial Diet</li> <li>▪ Role of Hormones</li> <li>▪ Characters of Insect Orders and sub-orders</li> <li>▪ Life Table</li> <li>▪ Insect Surveillance</li> <li>▪ Insect Predators &amp; Parasitoids.</li> <li>▪ Mode of action of Insecticides</li> <li>▪ Principles of Biological Control</li> <li>▪ Types of Traps</li> <li>▪ Pest of Cotton, Soybean, Sugarcane</li> <li>▪ Pest of Citrus, Guava, Mango</li> <li>▪ Laboratory techniques in Plant Protection</li> </ul>
<b>BSMA M.Sc. (Agri.) Agril. Entomology</b>	<ul style="list-style-type: none"> <li>▪ Preparation of Permanent mounts of Insect appendages</li> <li>▪ Type of Immature stages</li> <li>▪ Preparation of Artificial Diet</li> <li>▪ Role of Hormones</li> <li>▪ Life Table</li> <li>▪ Insect Surveillance</li> <li>▪ Insect Predators &amp; Parasitoids.</li> <li>▪ Principles of Biological Control</li> <li>▪ Types of Traps</li> <li>▪ Concept of Vertical and Horizontal</li> <li>▪ Pest of Citrus, Guava, Mango</li> <li>▪ Laboratory techniques in Plant Protection</li> <li>▪ Study of type of Honey bees</li> <li>▪ Study of Microculture</li> </ul>

**6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
1	2018-19	Dr. P.R. Zanwar	Head	2
2		Dr. D.R. Kadam	Associate Professor	2
3		Dr. Md.Ilyas	Associate Professor	1
4		Dr. B.B.Bhosle	Ex .Head	1
5		Dr.M.M.Sonkamble	Assistant Professor	2
6		Dr. C.B.Latpate	Associate Professor	2
7		Dr.B.V.Bhede	Assistant Professor	2
8		Dr.S.K. Patil	Associate Professor	1
1	2019-20	Dr.S.D. Bantewad	Head	1
2		Dr. P.S. Neharkar	Professor	2
3		Dr.S.S.Gosalwad	Associate Professor	1
4		Dr. P.R. Zanwar	Associate Professor	1
5		Dr. D.R. Kadam	Associate Professor	1
6		Dr.M.M.Sonkamble	Assistant Professor	2
7		Dr.B.V.Bhede	Assistant Professor	1
8		Dr. C.B.Latpate	Associate Professor	1
9		Dr. Md.Ilyas	Associate Professor	1
10		Dr. N E Jayewar	Assistant Professor	1
11		Dr.S.K. Patil	Associate Professor	1
1	2020-21	Dr.S.D. Bantewad	Head	1
2		Dr. P.S. Neharkar	Professor	1
3		Dr.S.S.Gosalwad	Associate Professor	1
4		Dr. P.R. Zanwar	Associate Professor	1
5		Dr. D.R. Kadam	Associate Professor	2
6		Dr.M.M.Sonkamble	Assistant Professor	2
7		Dr.B.V.Bhede	Assistant Professor	1
8		Dr. C.B.Latpate	Associate Professor	1
9		Dr. S K Patil	Associate Professor	1
10		Dr. N E Jayewar	Assistant Professor	1
1	2021-22	Dr.S.D. Bantewad	Head	2
2		Dr. P.S. Neharkar	Professor	1
3		Dr.S.S.Gosalwad	Associate Professor	1
4		Dr. P.R. Zanwar	Associate Professor	1
5		Dr. D.R. Kadam	Associate Professor	1
6		Dr.M.M.Sonkamble	Assistant Professor	1
7		Dr.B.V.Bhede	Assistant Professor	1
8		Dr. C.B.Latpate	Associate Professor	1
9		Dr. F.S. Khan	Assistant Professor	1
10		Dr. A.G.Lad	Assistant Professor	1
1	2022-23	Dr.S.D. Bantewad	Head & ADP	2
2		Dr. P.S. Neharkar	Professor & Head	2
3		Dr.S.S.Gosalwad	Associate Professor	1
4		Dr. P.R. Zanwar	Associate Professor	2

5		Dr.M.M.Sonkamble	Assistant Professor	2
6		Dr.B.V.Bhede	Assistant Professor	2
7		Dr. C.B.Latpate	Associate Professor	1
8		Dr. F.S. Khan	Assistant Professor	1
9		Dr. A.G.Lad	Assistant Professor	1
10		Dr. Md.Ilyas	Associate Professor	1

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	M.Sc.(Agri.)	12+4	08
2	2019-20	M.Sc.(Agri.)	12+4	11
3	2020-21	M.Sc.(Agri.)	12+4	10
4	2021-22	M.Sc.(Agri.)	12+4	10
5	2022-23	M.Sc.(Agri.)	12+4	10
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and winding machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this department.

Most of the M.Sc. (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test



			<p>report.</p> <p>Liquid bio fertilizers are available to farmers for sale.</p> <p>Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community.</p> <p>Feedback was submitted in research review at university level.</p> <p>Need based and location specific research programme was initiated.</p>
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
M.Sc. (Agri.)	12+4	13	13	12	11	15	3 18.75	3 18.75	4 25.00	5 31.25	1 6.25
<p>*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</p> <p>**Intake of Ph.D. degree from the academic year 2016-17</p>											

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme department has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Agril. Entomology	M.Sc.(Agri.) As 5 <sup>th</sup> Dean	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app, etc.
2	Agril. Entomology	M.Sc.(Agri.) As BASMA	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app, etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.

- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Conducted online examination for M.Sc. (Agri.) students.
- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

#### **Android apps**

- Pests management of field crops
- Cotton Production & management Technology

#### **Illuminators**

- IPM of Cotton
- IPM of Soybean
- IPM of pigeon pea

#### **Blog**

- [www.ipmbvb.blogspot.in](http://www.ipmbvb.blogspot.in)

#### **Website**

- [www.coap.vnmkv.ac.in](http://www.coap.vnmkv.ac.in)

#### **Other digital media used**

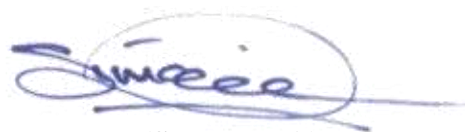
- Google Classroom, Zoom Meetings, Whats App Groups etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes is related to the All India Admission from ICAR and also having weightage for department Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**


**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri.)**

## Appendix-I M.Sc. Students Feedback




कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani




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**STUDENTS' FEEDBACK FORM**


1	Name of the Student	SHINDE PRANAV VILAS		
2	Registration No	2022A 62M		
3	Degree and Semester	MSc Agri II <sup>nd</sup> sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Entomology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature





कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Gadekar Mahadev Paromeshwar		
2	Registration No	2022A 55M		
3	Degree and Semester	M.Sc Agri. II sem.		
4	Name of Department (for M.Sc. & Ph.D. Students)	Entomology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Mahadev*  
Student's Signature



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Khalokhe - Ganesh Digambar		
2	Registration No	2022A/SEM		
3	Degree and Semester	M.Sc. [Agri] Sem. II <sup>nd</sup>		
4	Name of Department (for M.Sc. & Ph.D. Students)	Entomology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Ganesh Digambar*  
Student's Signature





कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Lhansane Paulan Pandharinath		
2	Registration No	2022P/64M		
3	Degree and Semester	MSc (Agri) II <sup>nd</sup> Sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Entomology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Student's Signature



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Agricultural Entomology**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme Ph.D. (Agri.)**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The College of Agriculture, Parbhani was established in the year 1970. Further Ph.D. (Agri.) degree programme was started in 1978.

#### **2. Objectives**

1. To educate, train and generate experts in the field of agricultural entomology and develop human resource.
2. To conduct studies related to all aspects of ecology related to insect-borne diseases.
3. To detecting the role of insects in the spread of diseases and discovering ways of protecting food and fiber crops, and livestock from being damaged.
4. To study the way beneficial insects contribute to the well being of humans, animals, and plants.
5. To carry out studies on the identification and taxonomy of vectors and evaluate the status of the associated group of insects.
6. It helps agricultural Entomologists to protect valuable resources from insect pests and also in the studies of biodiversity.
7. Awareness and management of pink bollworm, snails FAW etc
8. To participation in farm advisory work through All India Radio, TV, Exhibition and telephonic help line of the University any social media for Problem oriented specific query of farmers in relation to crop pest management.

#### **3. Accomplishment**

##### **■ Teaching:**

The Department of Agricultural Entomology, VNMKV, Parbhani was established in the year 1970. Ph.D. degree programme was started in the year 1978. During academic year 2018-19, Common Entrance Test (CET) is made compulsory for admissions to Ph.D. degree programme for quality education.

During last five years, 25 students successfully completed their degree programme in Ph.D.(Agri.) in various disciplines. The exposure to students for their research on advanced

topics. During last five years 25 Ph.D. students were placed for Higher education, Govt. Servicess, Banking Servicess, Servicess in corporate sector, own business and farming.

▪ **Research:**

Different aspects of pests of cotton, sorghum, groundnut, sunflower, soybean, mustard, pigeonpea, chickpea crops are being studied besides investigations pertaining to ecology, toxicology and biological control.

Department of Entomology conduct product testing trials of various Government/Non-Government organisation to test the efficacy, phytotoxicity and bio-safety of testing products.

The main mandate of the department is to impart quality agricultural research; hence the research is mainly carried out through Ph.D. (Agri.) students. Faculty members are submitting their research in Board of Studies (BOS) meetings. Annually minimum two meetings of Board of Studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. (Agri.) students. BOS is the high power body in the field of Education and Research for its policies. More than 71 thesis on various research topics were submitted. Thesis submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

Apiary Unit has been established at Department of Entomology since 2019 at present we were maintaining three *species* domesticated of honey bees viz, *Apis mellifera*, *Apis cerana indica* and *stingless bees* during 2020-21 Two trainings were organized on beekeeping for entrepreneurs through ICAR SC-SP. Training are also conducted in collaboration with ATMA, State department of Agriculture, KIVB and some NGO like GVT.

**Extension Activity**

- Awareness and management of pink bollworm (2016-2018).
- Publication of CDs, books, folders, popular articles, pamphlets.
- Participation in farmers rallies, trainings, exhibitions.
- Online Voice message to cotton growers through TMC-MM-II-1.6 E-Kapas Network and Technology Documentation Project.
- Development Android Mobile Application 'Kapus' for Cotton growers through TMC-MM-II-1.6 E-Kapas Network & Technology Documentation Project.
- Awareness and management campaign for white grub (2014-15).



- Participation in special extension programme – Vidyapeeth Aaplya Dari, Tantradnyan Shetawari.
- Success stories on white grub, HaNPV, Zygotogramma, IPM, IRM.
- Trainings sponsored - IPM, IRM, Storage, Plant Protection, Sericulture.
- Experts on AIR/ TV Helpline/ KCC for advisory services
- Street Plays/ Slogans
- ICT Tools



**Visit of Hon. VC with Dean to Ph.D Laboratories**



**Pest observation in research field**



**Ph.D. (Agri.) students working in Laboratory.**



**Ph.D. (Agri.) students working in Experimental Farm.**



#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	01	00	--	0
		Professor	00	01	--	100
		Associate Professor	04	04	--	50
		Assistant Professor	04	00	--	0
2	2019-20	Head	01	00	--	0
		Professor	01	00	--	0
		Associate Professor	04	04	--	50
		Assistant Professor	04	00	--	0
3	2020-21	Head	01	00	--	0
		Professor	01	00	--	0
		Associate Professor	03	05	--	63
		Assistant Professor	04	00	--	0
4	2021-22	Head	01	00	--	0
		Professor	01	00	--	0
		Associate Professor	03	05	--	63
		Assistant Professor	04	00	--	0
5	2022-23	Head	01	00	--	0
		Professor	01	00	--	0
		Associate Professor	03	05	--	63
		Assistant Professor	03	01	--	25

\* The faculties mentioned above are allotted for Ph.D. Degree programme

**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation*
1	2018-19	Technical ( <b>Agril. Asstt.</b> )	1	-	-	-
		Supporting including farm and field workers	9	-	-	-
2	2019-20	Technical ( <b>Agril. Asstt.</b> )	2	-	-	-
		Supporting including farm and field workers	6	-	-	-
3	2020-21	Technical ( <b>Agril. Asstt.</b> )	2	-	-	-
		Supporting including farm and field workers	5	-	-	-
4	2021-22	Technical ( <b>Agril. Asstt.</b> )	2	-	-	-
		Supporting including farm and field workers	4	-	-	-
5	2022-23	Technical ( <b>Agril. Asstt.</b> )	2	-	-	-
		Supporting including farm and field workers	4	--	--	--

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Museum



Hon'ble VC and ADP visit to Department of Entomology, Insect Museum

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it sufficient to the meet required
<b>1. Classrooms At College of Agriculture, Parbhani</b>			
1	Lecture Hall No. 1	40	Sufficient for UG and common courses of PG Students
2	Lecture Hall No. 2	40	

**\* Total Classrooms / Lecture Halls - 02**

## 2. Laboratories



**Ph.D. (Agri.) Students Working in Laboratory**



**Ph.D. (Agri.) Students recording observations under microscope**

**Laboratories**

Laboratory	List of major equipment		Capacity	Remark
Department of Agril. Entomology				
PG Laboratory - 1	1	Insect Boxes	40	Sufficient for Ph.D. Agri. students
	2	Insect Collecting Net		
	3	Honey Extractor		
	4	Bee Hive		
	5	Other apiculture Instruments		
	6	Compound Microscope		
PG Laboratory – 2	1	Dissection Material	40	Sufficient for Ph.D. Agri. students
	2	Binocular Microscope		
	3	Insect Boxes		
	4	Insect Collecting Net		
PG Laboratory - 3	1	Laminar Air Flow	40	Sufficient for Ph.D. Agri. students
	2	Autoclave		
	3	BOD		
	4	Centrifuge		
	5	Hot Air Oven		
	6	Refrigerator		

**2. Farm facilities**

**Total Farm area in hectare : 2.51 ha**

**Irrigated Land in hectare : 2.51 ha.**

**Instructional Farm and facilities available:**

The department has 2.51 ha land and crop cafeteria for M.Sc. (Agri.) research work, for conduct of practicals purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes shade nets, wells, tube wells etc. The most important instruments, equipments available on the college farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Agril. Entomology</b>		
<b>2.51 ha.</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 bore wells.	<ul style="list-style-type: none"> <li>About 13 experiments of M.Sc. (Agri.) students are conducted every year respectively crop cafeteria for the <i>kharif</i> and <i>Rabi</i> crop</li> </ul>



Revenue receipts generated by Department of Agril. Entomology from various sources (Product Testing, Sale of Bio-Control Products & Farm produce etc)				
Sr. No.	Year	Receipt Received Rs.(Lakh)		Total
		Product Testing	Bio-Control Production	
1.	2018-19	1.65	0.13	1.78
2.	2019-20	2.81	0.62	3.43
3.	2020-21	--	1.16	1.16
4.	2021-22	6.12	5.96	12.08
5.	2022-23	--	0.14	0.14
Total				18.59

#### 4. Workshop/Other instructional unit if any give details.

##### ➤ Department of Agril. Entomology

1. Research laboratory for M.Sc. (Agri.) students
2. One well equipped seminar hall for M.Sc. (Agri.) students

#### 5. Theory and practical batches for the degree programme.

M.Sc. (Agri.) Average 12 students Entomology department					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### Discipline wise Ph.D. Course Curriculum:

The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

Department	Hands on training
Ph.D. (Agri.) Agril. Entomology	<ul style="list-style-type: none"> <li>Study Taxonomic keys for identification of insects upto Family level.</li> <li>Study on mass production procedure of various Bioagents in the laboratory and their field evaluation</li> <li>Deals with study of various Resistance Mechanisms in plant and how to escape with insect pest infection.</li> <li>Residual toxicity &amp; persistence of insecticides and toxic effects of insecticides on Crops.</li> <li>Deals with various molecular tool for diagnosis of insect pest and application of molecular markers in Entomology</li> <li>Study of Various molecular tools for diagnosis of insect pests and application of various IPM practices in farmers field</li> </ul>
BSMA Ph.D. (Agri.) Agril. Entomology	<ul style="list-style-type: none"> <li>Study Taxonomic keys for identification of insects upto Family level.</li> <li>Study of artificial diet.</li> <li>Study of Life table.</li> <li>Study of insect parasitoidation</li> <li>Residual toxicity &amp; persistence of insecticides and toxic effects of insecticides on Crops.</li> <li>Polygenic and Oligogenic Resistance</li> <li>Deals with various molecular tool for diagnosis of insect pest and application of molecular markers in Entomology</li> <li>Study of Various molecular tools for diagnosis of insect pests and application of various IPM practices in farmers field</li> </ul>

#### 6.4.6 Supervision of students in Ph.D. Agri. degree programmes (2018-19 to 2022-23)

Department of Agril. Entomology				No. of supervision of Ph.D. students
Sr.No	Year	Name of faculty	Designation	
1	2018-19	Dr. P.R.Zanwar	Head	01
2		Dr.S.K. Patil	Associate Professor	01
3		Dr. D.R. Kadam	Associate Professor	01
1	2019-20	Dr.S.D. Bantewad	Head	01
2		Dr.P.S. Neharkar	Professor	01
3		Dr. D.R. Kadam	Associate Professor	01
1	2020-21	Dr.S.D. Bantewad	Head	01
2		Dr.P.S. Neharkar	Professor	01
3		Dr. D.R. Kadam	Associate Professor	01

4		Dr.C.B. Latpate	Associate Professor	01
1	2021-22	Dr.S.D. Bantewad	Head	01
2		Dr.P.S. Neharkar	Professor	01
1	2022-23	Dr.P.S. Neharkar	Head	1
2		Dr. P.R. Zanwar	Associate Professor	1
3		Dr. D.R. Kadam	Associate Professor	1

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	Ph.D.(Agri.)	04	04
2	2019-20	Ph.D.(Agri.)	04	04
3	2020-21	Ph.D.(Agri.)	04	05
4	2021-22	Ph.D.(Agri.)	04	05
5	2022-23	Ph.D.(Agri.)	04	05
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and vending machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the PG students of this college are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. Most of the PG research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this College.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with students participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human	Action taken as per the suggestion

		resource with industrial specialised use	
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
Ph.D. (Agri.)	3+1	03	03	04	03	03	1 25.00	1 25.00	0 0.00	1 25.00	1 25.00

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)  
 \*\*Intake of Ph.D. degree from the academic year 2016-17



#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Agril. Entomology	Ph.D.(Agri.) As 5 <sup>th</sup> Dean	Online ICAR E-courses,PPT Presentations and use of internet, smartphone app, etc

- Awareness and management of pink bollworm (2016-2018).
- Publication of CDs, books, folders, popular articles, pamphlets.
- Participation in farmers rallies, trainings, exhibitions.
- Online Voice message to cotton growers through TMC-MM-II-1.6 E-Kapas Network and Technology Documentation Project.
- Development Android Mobile Application ‘Kapus’ for Cotton growers through TMC-MM-II-1.6 E-Kapas Network & Technology Documentation Project.
- Awareness and management campaign for white grub (2014-15).
- Participation in special extension programme – Vidyapeeth Aaplya Dari, Tantradnyan Shetawari.
- Success stories on white grub, HaNPV, Zygogramma, IPM, IRM.
- Trainings sponsored - IPM, IRM, Storage, Plant Protection, Sericulture.
- Experts on AIR/ TV Helpline/ KCC for advisory services
- Street Plays/ Slogans

ICT Tools

#### Other digital media used

- Google Classroom, WhatsApp etc.

**6.4.10**The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.

**6.4.11** Since the accreditation of programmes is related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.


**6.4.12** Certificate (Applicable when SSR is submitted for programme)

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri.)**

## Appendix-I Ph.D. Students Feedback



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Gangurde Shaligram Maharu		
2	Registration No	2019 A/14P		
3	Degree and Semester	Ph.D. (Agri.)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agricultural Entomology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Student's Signature  
(Gangurde S.M.)  
Regn No. 2019A/14P



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Dr. R.Y. Khadare		
2	Registration No	2015A/LLP		
3	Degree and Semester	Ph.D		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agril. Entomology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Student's Signature



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	Dr. Nare Y. B.		
2	Registration No	2018A109P		
3	Degree and Semester	Ph.D Agri		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agril. Entomology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Student's Signature





**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Agril. Extension Education**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme:- M.Sc. (Agri.) Agril. Extension Education**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Agril. Extension Education, College of Agriculture, Parbhani was established in the year 1956. Further M.Sc. (Agri.) degree programme started in the year 1970.

#### **2. Objectives**

1. To impart instructional teaching in extension education at P.G. Level.
2. To undertake basic and applied research in extension education.
3. To participate in the extension education programmes at various levels.
4. To arrange trainings, workshops and seminars in the field of extension education.
5. Ultimately to build required human resource and help advancement of extension education
6. discipline.
7. Implement the different research projects.

#### **3. Accomplishments**

##### **▪ Teaching:**

The Department of Agril. Extension Education, College of Agriculture, Parbhani was established in the year 1956. M.Sc. (Agri.) degree programme was started in the year 1970. Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Agri.) degree programme for quality education.

During last five years, 57 students successfully completed their degree programme in M.Sc. (Agril. Extension Education). During last five years 48 M.Sc. (Agril. Extension Education) students were placed for Higher education, Govt. Servicess, Banking Servicess, Servicess in corporate sector, won business and farming.



**College of Agriculture, VNMKV, Parbhani**



**Language Laboratory**

▪ **Research:**

The main mandate of the Department is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Agri.) students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) students. BOS is the high power body in the field of Education and Research for its policies. 57 thesis on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. Three National level trainings were organized on different topics of Agril. Extension Education.
2. Two Adhoc Research Projects in collaboration with International and National Institutes were completed.
3. Contribution of teaching staff in the technological recommendations-08.

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

Head of the department is actively involved and act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the department.





# अंग्रेो स्पेशल

९  
संग्रहालय, २३ मार्च २०२१  
स्वच्छ अंगोवन

## सूक्ष्म सिंचनातून उंचावले आदिवासींचे जीवनमान

मार्शलक राखणे

वसंतगाव याईक भराडवाडा कृषी विद्यापीठाच्या (परभणी) माध्यमातून याई (त्रि. हिमोली) गावातील आदिवासी शेतकऱ्यांना सूक्ष्मसिंचनाची साधने पुरवण्यात आली. काटेकोर सिंचन व्यवस्थापनाचे धडे दिले. त्यातून पीक पडतील बरंल, उत्पादनात वाढ व अर्थकारण उंचावणे शेतकऱ्यांना शक्य झाले आहे.

हिं मोली विप्लव कडमनूरी कडुवा ठिकाणावर सुमारे दहा किलोमीटरचा याई हे पीठ इतर लोकसंख्येचे गाव आहे. येथे आदिवासी शेतकऱ्यांची संख्या सुमारे १३ टक्के आहे. भौतिक क्षेत्र क्षेत्र हजारा ६८० हेक्टर तर लागवडीयोग्य ते एक हजार हेक्टर आहे. त्यात की व दगड - मोठे असलेली हलकी । जमीन आहे. घाबरी पाऊस ... .. पण असतो तरी पावसाचे पाणी टोंट जातारकन वाहून जात असल्याने पुरावले पाणी जिरण्याचे प्रमाण कमीच आहे. जिरण्याची बहल क्षेत्र असल्याने या गावातील बहुतांश शेतकऱ्यांची वर्षा पावस घटिललेली सुट्टी पिकांवरच आहे. खरीप भाटीवरची लागवडीसाठी शासन मंजुरी किंवा कसोटीड सवलत म्हणून अन्य जिरण्यात स्वतःच लागवडे करताये.

सिंचन सयसया

जमिनीच्या पड-आकारानुळे पारंपरिक प्रकळी पद्धतीने सिंचन पाणी देणे शक्य नव्हते. सात वर्षांपूर्वी केवळ १० शेतकऱ्यांकडे तुषार संच होते. शिक्षण केंद्रात प्रकळी सिंचनसाठी योग्य असल्याने तसेच सुधनसिंचनाची साधने पुरवण्यात येत असत शेतकऱ्यांचे आर्थिक धमाल नव्हती. सन २०१४ मध्ये अखिल भारतीय सामंथिक सिंचन व्यवस्थापन योजनेअंतर्गत याई याड्याची



तुषार सिंचनाद्वारे उन्हाळी धुईवृक्ष.

सिंचन झाले. वसंतगाव याईक भराडवाडा कृषी विद्यापीठाचे ताकदालीन कुलगुरू डॉ. बी. बर्मिंदरबाबू, संतोषर संघालक डॉ. राधाप्रसाद वासकर यांचे मार्गदर्शन त्यासाठी लागले. सुधन शास्त्रज्ञ डॉ. अशोक काडाले, कृषी विद्यापीठात गाडनस गाडदे, कृषी विद्यापीठाचे तज्ज्ञादीन कडुका कृषी अधिकारी डॉ. बी. काडे व त्यांचे सहकारी यांच्या सहकाराने आराखडा तयार केला जमिनीचे प्रकळ, सिंचन सोयींची अवलोकन, पीक पद्धती संदर्भित बदलतात असावे. ऑगस्ट २०१८ मध्ये गावातील ५३ शेतकऱ्यांचा तुषार संच वाटव करण्यात आले.

'पोकरा' अंतर्गत लाभ

नाडवी तेलामुळे कृषी संजीवनी प्रकल्प (पोकरा) अंतर्गत याड्याची सिंचन झाली. किल्ला अधीनक कृषी अधिकारी यो. डो.



आदिवासी शेतकऱ्यांना सुधन सिंचन संधाचे वाटव करताना कुलगुरू डॉ. अशोक बर्मन, संतोषर संघालक डॉ. राधाप्रसाद वासकर, डॉ. अशोक काडाले आदी

मदत व फायदे

- स्थळी हलका, गूढ तसेच उन्हाळी धुईवृक्षाचे पाणी देता आले. त्यातून उत्पादकादीस मदत मिळाली.
- सन २०१५ मध्ये मार्चमध्ये १० शेतकऱ्यांचा विद्यापीठाचे कडुवादीन मुधावील पोली वंग. खरीपत १०० शेतकऱ्यांचा सोपावीलच्या पसरणुम ८१ आणि जेएच १३०५ यासाठी विप्लव किल्लेत
- स्थळी गूढ किल्ले व खडे किल्लेत
- तुषारपाणीत एका शेतकऱ्याचा 'पोडिवात तुषा विप्लव' देण्यात आली. त्याआधारे हळदीची गाडीवाता पद्धतीने लागवड करून हेक्टर ३५ किंमटलपणे उत्पादन मिळाले.
- सन २०१६-१७ व त्यापुढील वर्षी अनुक्रमे ७ व ११ शेतकऱ्यांचा या योजनेचे वाटव
- सन २०२० मध्ये कुलगुरू डॉ. अशोक बर्मन यांच्या हस्ते प्रायेची एक एकर क्षेत्रामध्ये १० शेतकऱ्यांचा ठिकाळ ठरवले वाटव.
- जाता केवळ खरीपवर अवलंबून न राहता उसा, हळद, फळे, भाजोगाता पिके असा पीक पद्धतीत बदल झाला. पावसात भावपाठी शीतकामे उपयुक्त झाली. मधुरीमातीचे स्थळीत बांधले.

टोखडे, उपविभागीय कृषी अधिकारी बी. एस. कण्ठले, तालुका कृषी अधिकारी गणेश वकाळ यांच्या मार्गदर्शनाखाली शेतकऱ्यांचा सिंचन घटकांचा लाभ दिला जात आहे. अनेक शेतकऱ्यांनी तेह तसेच अन्य

उत्पादन	पुर्वी	साध्या
हळद	२५ मि.	४५ मि.
सोयाबीन	१० ते १२ मि.	१५ ते २० मि.
हलका	१८ मि.	२५ मि.
गूढ	१० ते १५ मि.	२५ ते ३० मि.
उन्हाळी धुईवृक्ष	२८ मि.	



याई गावातील सदाशिव गूढे यांनी पिकवलेली हळद (छायाचित्र : मार्शलक राखणे)

६६ योजने अंगलवजाणीद्वारे आधुनिक सूक्ष्म सिंचन संच आदिवासी शेतकऱ्यांपर्यंत पोहोचले. त्यांच्या जीवनात सुधारणा झाली याचा मनमयी आनंद आहे.

- डॉ. अशोक बर्मन, कुलगुरू  
सिंचन यादने उपयुक्त झाल्याने शेतकरी कपटी पिकांकडे वळले. याबबब अधपडाला गळी मिळाली.

- डॉ. राधाप्रसाद वासकर, संतोषर संघालक  
असह्य देवा भावांची म्हात एका जमीन आहे. त्यांची तीन एकर जमीनताहली आहे. सुधनसिंचन संच मिळाल्याने पड-आकाराच्या

जमिनीवरील विवादा पाणी देणे सोपे झाले. हळदीचे उत्पादन वाढले. आता पैकाची लागवड केली आहे. पुर्वी कोरडवाहू पीक पद्धतीत कर्न पलायनीची विता वाटायची. आता दोन पैम शिल्लक राहू लागले आहेत.

- बाबदेव लाराडाले  
काही वर्षांपूर्वी पड-आकारात केवळ शिराणी उत्पादन केला येत आहे. पावसावर अवलंबून असल्यामुळे उत्पादकी खाली गेली. चण्यासाठी जोअर पेतला. परंतु जमीन व्यवस्थित चिखल नव्हती. आता हळद, गूढ, उन्हाळी धुईवृक्षाचे उत्पादन देणे शक्य झाले आहे.

- भाऊराव द्याडकन

पडपिकांची लागवड केली आहे.

सुधारणा

- सुधन सिंचनमुळे चण्याचा झाला काटेकोर वाढ. ● पावसाच्या खंड काळाला तुषार संधाद्वारे पाणी देणे शक्य झाले. ● एक पीक पडलीलेकरी तीस पिके पडलीला असलेल.
- पावसाच्या खंड काळाला तुषार संधाद्वारे पाणी देणे ते वेळ लागल्याने

- गाडीवाता, ठिकाळ सिंचन, तुषार व सधुवा व्यवस्थापनातून झालेली वाढ (हेक्टर)
- शेतकऱ्यांचे सारखी उत्पन्न प्रतिक्रिया एक लाख २३ हजार रुपयांपर्यंत तीस लाख १२ हजार रुपयांपर्यंत वाढले.

डॉ. अशोक काडाले,  
००८००४९९३२, ०५८८०८२०५३  
नाथदेव लाराडाले, ९९२१२८५२७३

AGRESCO research project conducted by the staff, dept. of Agril. Extn. Edu.

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No.	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	01	00	--	00
		Professor	00	01	--	100
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
2	2019-20	Head	01	00	--	00
		Professor	00	01	--	100
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
3	2020-21	Head	01	00	--	00
		Professor	00	01	--	100
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
		Assistant Professor (Adhoc)	01	00	--	00
4	2021-22	Head	01	00	--	00
		Professor	00	01	--	100
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
		Assistant Professor (Adhoc)	01	00	--	00
5	2022-23	Head	00	01	--	100
		Professor	01	00	--	00
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
		Assistant Professor (Adhoc)	01	00	--	00

\* The faculties mentioned above are allotted for M.Sc. & Ph.D. Degree programme



### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of technical staff for Field work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-

\* Above Technical / supporting staff are helping M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.

### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

#### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
Department of Agril. Extn Education			
1	Classroom No. 1	50	Sufficient for M.Sc. (Agri.) Students
2	Classroom No. 2	50	

## 2. Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Agril. Extnsion& Communication				
Four (04) Villages of College Extension Block	1	LCD projectors (02) with audio system	40	Sufficient for M.Sc. (Agri.) Students
AV Post Graduate Laboratory (01)	1	LCD projectors (02)	20	
	2	K-Yan (01)		
Language Laboratory	1	10 terminals line with main server (LAN)	50	

## 3. Farm facilities : Nill

## 4. Workshop/Other instructional unit if any give details.

### ➤ Department of Agril. Extension Education

1. Computer laboratory/ Language laboratory for M.Sc. (Agri.) students
2. One well equipped Audio-Video hall for M.Sc. (Agri.) students

## 5. Theory and practical batches for the degree programme.

<b>M.Sc. (Agri.) Average 12 students per department</b>					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

#### • M.Sc. (Agri.) Programme

As per the lesson plan, students practicalare conducted in a manner to give maximum exposure to the students forincreasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.

- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

Department	Hands of training
<b>Department of Agril. Extension Education</b>	
<b>M.Sc. (Agri.) Agricultural Extension</b>	<ul style="list-style-type: none"><li>▪ Exposure visit to KVK, NGOs, ATIC, Grampanchayat, Agri. Polytechnic. Report Preparation &amp; presentation.</li><li>▪ Preparation of scripts of TV &amp; Radio talk, writing of News Story, Feature articles, of Folders, Leaflets etc.</li><li>▪ Students learn how the agril. Innovation spread among the farmers in the society.</li><li>▪ Selection &amp; formulation of research problem. Development of the conceptual framework of research, data collection devices. Techniques of interviewing &amp; collection of data.</li><li>▪ Handling of ICT tools, designing extension content, online extension service.</li><li>▪ Designing of training programmes on agro based enterprises, exposure visit to enterprises.</li><li>▪ Analysis of training methods for farmers &amp; extension workers. Evaluation of training programmes.</li><li>▪ Topic analysis, Stage courage and presentation skills.</li></ul>

<b>M.Sc. (Agri.) as per BSMA</b>	<ul style="list-style-type: none"> <li>▪ Supporting farmers to manage the declining/ deteriorating water and soil for farming</li> <li>▪ The techniques for assessing creative thinking divergent and convergent thinking</li> <li>▪ Experience in methods of persuasion</li> <li>▪ Organizational Development process by the practitioners skills and activities</li> <li>▪ Using SPSS for coding, data exploration, editing, analysis and interpretation</li> <li>▪ Formulation of secondary tables based on objectives of research</li> <li>▪ Capacity development needs assessment exercise</li> <li>▪ Capacity development project formulation exercise</li> <li>▪ Organizing capacity development workshop</li> <li>▪ Creating and designing web portals, blogs, social media pages</li> <li>▪ Live streaming extension programmes and organising webinars</li> <li>▪ Farmers call centres</li> <li>▪ Writing for digital media</li> <li>▪ Identify an on-going development programme and make-out 6 activities from the programme.</li> <li>▪ Draw a Gantt chart for 12 months programme activities</li> <li>▪ Identify impact assessment indicators for                             <ul style="list-style-type: none"> <li>▪ social and behavioral indicators, socio-cultural indicators, technology level indicators, environmental</li> <li>▪ impact assessment indicators and institutional impact assessment indicators</li> </ul> </li> <li>▪ Study the structure and function of agro-enterprises, Designing organizational structure/ organograms.</li> <li>▪ A case study on a successful case of scaling up knowledge and identify factors that contributed                             <ul style="list-style-type: none"> <li>▪ to its success</li> </ul> </li> <li>▪ Conducting gender analysis in a village using gender analysis techniques</li> </ul>
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#### 6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Agril. Extension Education</b>				
1	2018-19	Dr RD Ahire	Head	03
2		Dr RP Kadam	Prof/ Head	01
3		Dr JV Ekale	Asso. Prof	03
4		Dr PR Deshmukh	Asso. Prof	02
5		Dr PS Kapse	Asso. Prof	03

1	2019-20	Dr RD Ahire	Head	01
2		Dr RP Kadam	Prof/ Head	02
3		Dr SR Jakkawad	Asso. Prof	02
4		Dr JV Ekale	Asso. Prof	02
5		Dr PS Kapse	Asso. Prof	02
1	2020-21	Dr RD Ahire	Head	01
2		Dr RP Kadam	Prof/ Head	01
3		Dr SR Jakkawad	Asso. Prof	02
4		Dr JV Ekale	Asso. Prof	01
5		Dr PR Deshmukh	Asso. Prof	02
1		Dr PS Kapse	Asso. Prof	01
2		Dr SG Puri	Asst. Prof	01
3		Dr VS Manwar	Asst. Prof	01
4		Dr ND Deshmukh	Asst. Prof	01
1	2021-22	Dr RD Ahire	Head	01
2		Dr RP Kadam	Prof/ Head	01
3		Dr SR Jakkawad	Asso. Prof	02
4		Dr JV Ekale	Asso. Prof	01
5		Dr PR Deshmukh	Asso. Prof	02
6		Dr PS Kapse	Asso. Prof	01
7		Dr SG Puri	Asst. Prof	01
8		Dr VS Manwar	Asst. Prof	01
9		Dr ND Deshmukh	Asst. Prof	01
1	2022-23	Dr VB Kamble	Prof/ Head	01
2		Dr RP Kadam	Prof/ Head	01
3		Dr SR Jakkawad	Asso. Prof	02
4		Dr PR Deshmukh	Asso. Prof	01
5		Dr PS Kapse	Asso. Prof	02
6		Dr MV Kulkarni	Asst. Prof	01
7		Dr MI Khalge	Asst. Prof	01
8		Dr SG Puri	Asst. Prof	01
9		Dr VS Manwar	Asst. Prof	01
10		Dr ND Deshmukh	Asst. Prof	01
11		Dr AS Lad	Asst. Prof	02



**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of Degree Programme</b>	<b>Intake capacity*</b>	<b>No. of qualified faculty</b>
<b>1</b>	2018-19	M.Sc.(Agri.)	14	08
<b>2</b>	2019-20	M.Sc.(Agri.)	14	08
<b>3</b>	2020-21	M.Sc.(Agri.)	14	08
<b>4</b>	2021-22	M.Sc.(Agri.)	14	08
<b>5</b>	2022-23	M.Sc.(Agri.)	14	07
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the department administrations have provided very good facilities like R.O. drinking water, sanitary napkin and vending machine, gents & ladies washrooms, departmental library, preparation for competitive examinations,. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the M.Sc. (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per

			the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
<b>M.Sc. (Agri.)</b>	14	12	09	14	12	10	00	00	00	00	00
*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)											

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. Department has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Extension Education	M.Sc.(Agri.) (Old)	Agri Diksha, E- Content development, Online ICAR E-courses, PPT Presentations and use of internet, smart phone Google classroom etc.
	Agricultural Extension Education	M.Sc.(Agri.) (BSMA)	Agri Diksha, E- Content development, PPT Presentations and use of internet, Google classroom etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.

- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.
- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Other digital media used**

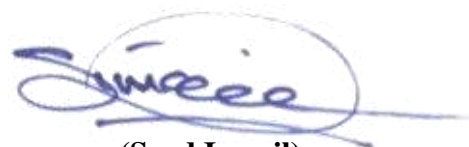
- Google Classroom, WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**


**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri)**

## Appendix-I M.Sc. Students Feedback



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani

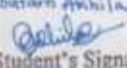


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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	THOUTAM AKHILA		
2	Registration No	2023A/131M		
3	Degree and Semester	M.Sc Ag. 1 <sup>st</sup> semester		
4	Name of Department (for M.Sc. & Ph.D. Students)	Extension Education.		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied

Thoutam Akhila.



Student's Signature





कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Bhosale Anuradha Chandrakant		
2	Registration No	2022A/77M		
3	Degree and Semester	MSc Agri. - III <sup>rd</sup> sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	MSc Agri - Agri. Extension Education		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Bhosale*

Student's Signature

Bhosale Anuradha Chandrakant  
2022A/77M



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी

College of Agriculture, Parbhani  
Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	Girish Gourav Digambar		
2	Registration No	2022 A/78M		
3	Degree and Semester	MSc Agri. III sem		
4	Name of Department (for M.Sc. & Ph.D. Students)	Agricultural Extension Education		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Girish Gourav Digambar*  
Student's Signature

Girish Gourav Digambar  
2022 A/78M



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Agril. Extension Education**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme Ph.D. (Agri.) Agril. Extension Education**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Agril. Extension Education, College of Agriculture, Parbhani was established in the year 1956. Further Ph.D. (Agri.) degree programme started in the year 1978.

#### **2. Objectives**

1. To impart instructional teaching in extension education at P.G. Level.
2. To undertake basic and applied research in extension education.
3. To participate in the extension education programmes at various levels.
4. To arrange trainings, workshops and seminars in the field of extension education.
5. Ultimately to build required human resource and help advancement of extension education
6. discipline.
7. Implement the different research projects.

#### **3. Accomplishment**

##### **▪ Teaching:**

The Department of Agril. Extension Education, College of Agriculture, Parbhani was established in the year 1956. Ph.D. degree programme was started in the year 1978. Common Entrance Test (CET) is made compulsory for admissions to Ph.D. degree programme for quality education.

During last five years, 10 students successfully completed their degree programme in Ph.D. (Agri.) in Agril. Extension Education. During last five years 07 Ph.D. students were placed for respectively for Higher education, Govt. Servicess, Banking Servicess, Servicess in corporate sector, won business and farming.



**Department of Agril. Extension Education, College of Agriculture, Parbhani**

▪ **Research:**

The main mandate of the Department is to impart quality agricultural education; hence the research is mainly carried out through Ph.D. students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. students. BOS is the high-power body in the field of Education and Research for its policies. 10 thesis on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. Three National level trainings were organized on different topics of Agril. Extension Education.
2. Two Adhoc Research Projects in collaboration with International and National Institutes were completed.
3. Contribution of teaching staff in the technological recommendations-08.



▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

Head of the department is actively involved and act as amember of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the department.



**Celebration of Marathi Bhasha Din by Ph.D. (Agri.) Students**





#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No.	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	01	00	--	00
		Professor	00	01	--	100
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
2	2019-20	Head	01	00	--	00
		Professor	00	01	--	100
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
3	2020-21	Head	01	00	--	00
		Professor	00	01	--	100
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
		Assistant Professor (Adhoc)	01	00	--	00
4	2021-22	Head	01	00	--	00
		Professor	00	01	--	100
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
		Assistant Professor (Adhoc)	01	00	--	00
5	2022-23	Head	00	01	--	100
		Professor	01	00	--	00
		Associate Professor	03	00	--	00
		Assistant Professor	03	01	--	25
		Assistant Professor (Adhoc)	01	00	--	00

\* The faculties mentioned above are allotted for M.Sc. & Ph.D. Degree programme

### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical staff for Field work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	02	01	-	-

\* Above Technical / supporting staff are helping M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.

### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

#### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Agril. Extn Education</b>			
1	Classroom No. 1	50	Sufficient for Ph.D. (Agri.) Students
2	Classroom No. 2	50	

#### 2. Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Agril. Extnsion& Communication				
Four (04) Villages of College Extension Block	1	LCD projectors (02) with audio system	40	Sufficient for Ph.D. (Agri.) Students
AV Post Graduate Laboratory (01)	1	LCD projectors (02)	20	
	2	K-Yan (01)		
Language Laboratory	1	10 terminals line with main server (LAN)	50	



**Language Laboratory, Dept. of Agril. Extension Education**

**3. Farm facilities : Nil**

**4. Workshop/Other instructional unit if any give details.**

➤ **Department of Agril. Extension Education**

1. Computer laboratory/ Language laboratory for Ph.D. (Agri.) students
2. One well equipped Audio-Video hall for Ph.D. (Agri.) students

➤ **Educational Museum**

The department had established the education museum in the year 2017. The University recommended and developed technologies have been displayed in the form of posters, images, live specimens and models in a systematic manner in the educational museum. The seed sample of new varieties of various crops, and inputs such biofertilizers, biomix etc developed by the university have been exhibited. The models of popular breeds of cow and buffalo have been displayed. The informative posters regarding IPM, INM, IDM of major crops have been arranged. The models such as watershed development, integrated farming system, backyard poultry, have been exhibited. The chart regarding jurisdiction of university, soil map have been displayed.

Every year, students from the different colleges, schools etc. regularly visited the educational museum. The students from the colleges of the Marathwada regions, State and

also from other state visited the education museum during education tour, they can understand the various agricultural technologies recommended and developed by the University.



**Celebration of 26<sup>th</sup> January, 2022 at Dept. of Agril. Extension Education**



**5. Theory and practical batches for the degree programme.**

Ph.D. (Agri.) Average 3 students per department					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	PracticalBatch	Theory Batch	PracticalBatch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

**6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)**

**Ph.D. Course Curriculum:**

The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

Department	Hands on training
Ph.D. (Agri.) Extension Education	<ul style="list-style-type: none"> <li>▪ Exposure visit to extension system of the state department&amp; also at national level</li> <li>▪ Development of research objectives, research design and research methods</li> <li>▪ Preparation of short term and long term training modules</li> <li>▪ Strengthen the organizational behavioural skills of the student</li> <li>▪ Use of ICT based instructional aids for instructional purpose</li> <li>▪ Topic analysis, Stage courage and presentation skills.</li> </ul>



Ph.D.(Agri.) Agril. Extension Education BSMA	<ul style="list-style-type: none"> <li>▪ Explore how different stakeholders influence policies</li> <li>▪ Identify policy level bottlenecks that constrain effective EAS delivery</li> <li>▪ Practice in developing research instruments</li> <li>▪ Hands-on exercise in minimising errors and biases</li> <li>▪ Hands-on experience in constructing tests, scale and indexes</li> <li>▪ Hands-on experience in writing systematic review using meta-analysis</li> <li>▪ Hands on exercises using software for qualitative data analysis</li> <li>▪ Hands-on experience in drafting IPR application – Patent/Copyright/ Trademark</li> <li>▪ Hands on experience in technology valuation</li> <li>▪ Hands on experience in technology licensing process including drafting agreements</li> <li>▪ Hands on experience in planning and organising technology promotion events</li> <li>▪ Hands on experience in various techniques in business communication and Business etiquette</li> <li>▪ Development and testing of survey instruments for evaluating learning outcomes/ competencies of students</li> <li>▪ Development and testing of survey instruments for performance appraisal / competency assessment of teachers.</li> <li>▪ Designing and developing a theme based knowledge portals</li> <li>▪ Hands-on practice with video-editing software, web conferencing and video conferencing solutions</li> <li>▪ Hands-on practice in using risk assessment/analysis tools</li> <li>▪ Case studies on risk / distress assessment in agriculture -Indian and global</li> <li>▪ Hands on practice on use of vulnerability and risk assessment tools and techniques</li> <li>▪ Case studies on impact assessment of crop insurance programs, disaster management programs</li> <li>▪ To understand the livelihood pattern of villagers and how the other socio-economic factors affect the livelihood of people Policy engagement platforms,</li> <li>▪ Stakeholder analysis mapping,</li> <li>▪ Exercise on networking skills,</li> <li>▪ Facilitating capacity building programmes</li> <li>▪ Facilitating virtual platforms</li> <li>▪ Filed visit to multi-stakeholder partnership projects</li> </ul>
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**6.4.6 Supervision of students in Ph.D. Agri. degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Agril. Extension Education</b>				
1	2018-19	Dr RD Ahire	Head	01
2		Dr RP Kadam	Prof/ Head	01
3		Dr PR Deshmukh	Asso. Prof	01
1	2019-20	Dr RD Ahire	Head	01
2		Dr RP Kadam	Prof/ Head	01
3		Dr JV Ekale	Asso. Prof	01
1	2020-21	Dr RD Ahire	Head	01
2		Dr RP Kadam	Prof/ Head	01
5		Dr PR Deshmukh	Asso. Prof	01
1	2021-22	Dr RD Ahire	Head	01
2		Dr RP Kadam	Prof/ Head	01
5		Dr PR Deshmukh	Asso. Prof	01
1	2022-23	Dr RD Ahire	Head	01
2		Dr RP Kadam	Prof/ Head	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	Ph.D. (Agri.)	03	05
2	2019-20	Ph.D. (Agri.)	03	04
3	2020-21	Ph.D. (Agri.)	03	04
4	2021-22	Ph.D. (Agri.)	03	04
5	2022-23	Ph.D. (Agri.)	03	04

**\*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)**

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the department administrations have provided very good facilities like R.O. drinking water, sanitary napkin and vending machine, gents & ladies washrooms, departmental library, preparation for competitive examinations. They are also satisfied with the facilities of this institute, smart classrooms and well-equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the Ph.D. (Agri.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the Ph.D. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.

		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
<b>Ph.D. (Agri.)</b>	03+1**	03	04	03	03	03	00 (00)	00 (00)	00 (00)	00 (00)	00 (00)
*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity) **Intake of Ph.D. degree from the academic year 2016-17											

**6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)**

The ICT is now integral part of the teaching programme. Department has also promoting the use of ICT in teaching and practical.

<b>Sr. No.</b>	<b>Name of the Department</b>	<b>Name of Degree Programme</b>	<b>Details of ICT tools used for curricula delivery</b>
<b>1</b>	Extension Education	Ph.D. (Agri.) Old	Agri Diksha, E- Content development, Online ICAR E-courses, PPT Presentations and use of internet, smart phone Google classroom etc.
	Agricultural Extension Education	Ph.D. (Agri.) (BSMA)	Agri Diksha, E- Content development, PPT Presentations and use of internet, Google classroom etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Internet facilities available for Ph.D. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for Ph.D. (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for Ph.D. (Agri.) students.
- Ph.D. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**Other digital media used**

- Google Classroom, WhatsApp etc.

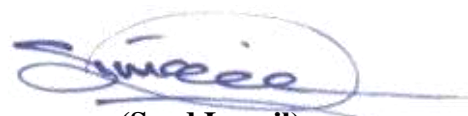


**6.4.10** The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.

**6.4.11** Since the accreditation of programmes is related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

**6.4.12** Certificate (Applicable when SSR is submitted for programme)

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



**(Syed Ismail)**  
**Dean (Agri)**

## Appendix-I Ph.D. Students Feedback



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	Shrutika Bhojar		
2	Registration No	2024A/19P		
3	Degree and Semester	Ph.D. (V <sup>th</sup> )		
4	Name of Department (for M.Sc. & Ph.D. Students)	Dept. of Agril. Extn. Education		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied

Student's Signature  
(Shrutika D. Bhojar)



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Ms. Vijayarani Tatyaba Dawane		
2	Registration No	2021A/20P		
3	Degree and Semester	Ph. D. (Agri.) 5 <sup>th</sup>		
4	Name of Department (for M.Sc. & Ph.D. Students)	Dept. of Agril. Extension Education		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied

*[Signature]*  
Student's Signature  
(Dawane V.T.)



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Govind Bhosale		
2	Registration No	2021A/18P		
3	Degree and Semester	Ph.D. (Vn)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Dept. of Agril. Extn. Education		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

Govind Bhosale  
Student's Signature



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Faculty of Horticulture**  
**Department of Fruit Science**  
**College of Agriculture, Parbhani**



## **6.4 Self-study report for the programme: - M.Sc. (Horticulture) in Fruit Science**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Horticulture, Parbhani was established in the year 1956. Further M.Sc. (Horticulture) degree programme started in the year 1970 and M.Sc. (Horticulture) in Fruit Science degree programme started in the year 2008.

#### **2. Objectives**

1. To educate, train and generate experts in the field of horticultural education and develop human resource.
2. To develop demand driven teaching for Horticulture in general and for the region in particular.
3. To develop horticulture technologies for farmers.
4. To carry out need based as well as applied research in horticulture and to transfer horticulture technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the technologies for agro-based small scale industries.

#### **3. Accomplishments**

##### **▪ Teaching:**

The College of Agriculture, Parbhani was established in the year 1956. M.Sc. (Horti.) degree programme was started in the year 1970. Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Horti.) Fruit Science degree programme for quality education.

During last five years, 35 students successfully completed their degree programme in M.Sc. (Agri.) in various disciplines. The college has signed MoU with reputed institutes like



Sr. No.	Name of Institute	Subject of MoU	With whom it is signed	Date of signing MoU	Current Status	Outcome of the MoU
1.	University of Horticultural Sciences Bagalkot, Karnatakka	For facilitating students training/ post graduate research	<b>Registrar</b> , University of Horticultural Sciences Bagalkot, Karnatakka	31.12.2020	Active	
2.	ICAR-National Research centre for Grape, Pune	For facilitating students training/ post graduate research	<b>Director</b> ICAR-National Research centre for Grape, Pune	02.12.2021	Active	Sharing of information

Since academic year 2016-17 cashless transactions are initiated for payment of fees.



**College of Agriculture, VNMKV, Parbhani**



▪ **Research:**

The main mandate of the Horticulture Department is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Horti.) students. Faculty members are submitting their research in AGRESCO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Horti.) Fruit Science students. BOS is the high power body in the field of Education and Research for its policies. More than 892 theses on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESCO conducted by four SAU's. After discussion in JOINT AGRESCO fruitful recommendations are drawn which are applicable to the farmers and policy makers.



**PG students working in Laboratory on their Research topic.**

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All Faculty of the department are actively involved and Head department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in Shetkari Melava and Farmers group discussion organized by the



University and also contributed in Agro Advisory services ( Gramin Krishi Mosam Seva) for the farmers



**Visit of Hon. Vice Chancellor sir and meeting with staff of Department of Horticulture and college of Horticulture at College of Horticulture**



**Visit of Hon. Agriculture Minister and Hon. Vice Chancellor sir to Horticulture Stall**

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	2	1	-	33.33
		Assistant Professor	3	2	-	40
2	2019-20	Head	1	-	-	00
		Professor	-	1	-	100
		Associate Professor	1	2	-	66.66
		Assistant Professor	3	2	-	40
3	2020-21	Head	-	1	-	100
		Professor	1	-	-	00
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
4	2021-22	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
		Assistant Professor (Adhoc)	5	-	-	00
5	2022-23	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	1	2	-	66.66
		Assistant Professor	2	3	-	60
		Assistant Professor (Adhoc)	3	-	-	00

\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme

### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of Horticulture Department are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	3	5	-	-
2		Supporting including farm and field workers	2	2	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.



#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Horticulture</b>			
1	Classroom No. 1	80	Sufficient for M.Sc. (Horti.) Fruit Science Students
2	Classroom No. 2	40	
3	Seminar Hall	40	

##### 2. Laboratories



M.Sc. (Horti.) Fruit Science Students Working in Lab

##### Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Horticulture				
PG Laboratory	1	Slides/ Cover Slips	40	Sufficient for M.Sc. (Horti.) Fruit Science Students
	2	Electronic Moisture Meter		
	3	Hygrometer		
	4	Electronic Weighing Balance (1 gm Capacity)		
	5	Pan Balance (1 kg & 10 kg Capacity each )		
	6	Hot Air Oven		
	7	BOD Incubator		
	8	Centrifuge Machine		
	9	Distillation Assembly		
	10	Hand Refractometer		
	11	Digital Refractometer		

	12	Microwave Oven		
	13	Fruit Crusher		
	14	Refrigerator		
	15	Deep Freezer		
	16	Grinding and Mixing Machine		
	17	Pulper		
	18	Fruit Penetrometer		
	19	Chlorophyll Content Meter (SPAD Meter )		
	20	Oven		
	21	Grafting & Budding Knife		
	22	Secateurs		
	23	Pruning Saw		
	24	Loppers		
	25	Water Bath		
	26	Muffle furnace		
	27	Spectrophotometer		
	28	Sieves		
	29	Glass container		
	30	Digital Leaf Area Meter (with digital display)		

### 3. Farm facilities

❖ **Total Farm area in hectare : 28.32 ha**

❖ **Irrigated Land in hectare : 15.00 ha**

#### Instructional Farm and facilities available:

The department of horticulture has 28.32 ha land and crop cafeteria for M.Sc. (Horti.) research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes poly houses, green house structures, shade nets, wells, tube wells etc. The most important instruments, equipments available on the college farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available. Composting unit as well as vermin compost units are available to utilize farm waste material which is used for M.Sc. (Horti.) research trials conducted on instructional farms.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Horticulture</b>		
<b>28.32 ha</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 wells and 2 bore wells.	<ul style="list-style-type: none"> <li>About 7 experiments of M.Sc. (Horti) students are conducted every year, respectively.</li> </ul>



Department of Horticulture Revenue receipts of the selling of Fruit/Vegetable/ Flowers			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
1	2018-19	0.66	<b>0.66</b>
2	2019-20	0.32	<b>0.32</b>
3	2020-21	0.54	<b>0.54</b>
4	2021-22	0.70	<b>0.70</b>
5	2022-23	0.10	<b>0.10</b>
	<b>Total</b>	<b>2.32</b>	<b>2.32</b>

#### 4. Workshop/Other instructional unit if any give details.

##### ➤ Department of Horticulture

1. One well equipped seminar hall for M.Sc. (Horti.) students

#### 5. Theory and practical batches for the degree programme.

M.Sc. (Agri.) Average 7 students per year					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### • M.Sc. (Horti.) Programme

As per the lesson plan, students practicalare conducted in a manner to give maximum exposure to the students forincreasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The

minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

### **Hands on training of M.Sc. (Horti.)**

Details of courses offered by each department as per BSMA.

Department	Hands of training
<b>Department of Horticulture</b>	
<b>M.Sc. (Horticulture) Fruit Science 2022-23</b>	<ul style="list-style-type: none"><li>▪ Distinguished features of tropical fruit species, cultivars and rootstocks</li><li>▪ Demonstration of planting systems, training and pruning</li><li>▪ Hands on practices on pollination and crop regulation</li><li>▪ Distinguished features of fruit species, cultivars and rootstocks</li><li>▪ Demonstration of planting systems, training and pruning</li><li>▪ Hands on practices on pollination and crop regulation</li><li>▪ Hands on practices on rooting of dormant and summer cuttings</li><li>▪ Anatomical studies in rooting of cutting and graft union</li><li>▪ Hands on practices on various methods of budding and grafting</li><li>▪ Exercises on bearing habit, floral biology</li><li>▪ Pollen viability and fertility studies</li><li>▪ Hands on practices in hybridization</li><li>▪ Exercises on identification and pomological description of various fruit species and cultivars</li><li>▪ Development of descriptive blanks <i>vis-a-vis</i> UPOV/ DUS test guidelines and Bioversity International</li><li>▪ Descriptors for developing fruit species and cultivar descriptive databases</li><li>▪ Study of different types of canopies</li><li>▪ Understanding dormancy mechanisms in fruit crops and seed stratification</li><li>▪ Techniques of growth analysis</li><li>▪ Evaluation of photosynthetic efficiency under different environments</li><li>▪ Visual identification of nutrient deficiency symptoms in fruit crops</li><li>▪ Identification and application of organic, inorganic and bio-fertilizers</li><li>▪ Soil/ tissue collection and preparation for macro- and micro-nutrient analysis</li><li>▪ An exposure to low cost, commercial and homestead tissue culture laboratories</li><li>▪ Media preparation, Inoculation of explants for clonal propagation, callus induction and culture, regeneration of plantlets from callus</li></ul>

	<ul style="list-style-type: none"> <li>▪ Sub-culturing techniques on anther, ovule, embryo culture, somaclonal variation</li> <li>▪ Design of organic orchards/ farms management</li> <li>▪ Nutrient management and microbial assessment of composts and bio-enhancers</li> <li>▪ Export promotion zones and export scenario of fresh fruits and their products</li> <li>▪ Practical exercises on quality standards of fruits for export purpose</li> <li>▪ Quality standards of planting material and seeds</li> <li>▪ Hands is not as only theory is their</li> <li>▪ Visits to institutes located in the hot and cold arid regions of the country</li> <li>▪ Identification of minor fruits plants/ cultivars</li> <li>▪ Collection of leaves and preparation of herbarium</li> </ul>
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**6.4.6 Supervision of students in M.Sc. (Horti.) degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Horticulture</b>				
1	2018-19	Dr. G.M. Waghmare	Head	01
2		Dr. T.B. Tambe	Professor	01
3		Dr. Kallabandi	Associate Professor	01
4		Dr. V.N. Shinde	Assistant Professor	01
5		Dr. A.M. Bhosale	Assistant Professor	01
6		Dr. S.V. Dhrutraj	Assistant Professor	01
7		Prof. R.S. Borade	Assistant Professor	01
8		Dr. S.R. Barkule	Assistant Professor	01
1	2019-20	Dr. T.B. Tambe	Professor	03
2		Dr. S.J. Shinde	Associate Professor	02
3		Dr. V.N. Shinde	Assistant Professor	02
4		Dr. A.M. Bhosale	Assistant Professor	01
5		Dr. S.V. Dhrutraj	Assistant Professor	01
6		Dr. S.R. Barkule	Assistant Professor	02
1	2020-21	Dr. A.M. Bhosale	Assistant Professor	02
2		Dr. S.V. Dhrutraj	Assistant Professor	02
3		Dr. S.R. Barkule	Assistant Professor	01
4		Dr. A.S. Lohakare	Assistant Professor	03
5		Dr. V.N. Shinde	Assistant Professor	03
1	2021-22	Dr. G.M. Waghmare	Head	01
2		Dr. S.J. Shinde	Associate Professor	01
3		Dr. B.M.Kallabandi	Associate Professor	01
4		Dr. A.M. Bhosale	Assistant Professor	02
5		Dr. S.V. Dhrutraj	Assistant Professor	01
6		Dr. R.V. Bhalerav	Assistant Professor	01
7		Dr. S.R. Barkule	Assistant Professor	01



8		Dr. A.S. Lohakare	Assistant Professor	01
1	2022-23	Dr. G.M. Waghmare	Head	02
2		Dr. S.J. Shinde	Associate Professor	01
3		Dr. B.M.Kallabandi	Associate Professor	01
4		Dr. S.V. Dhrutraj	Assistant Professor	02
5		Dr. S.R. Barkule	Assistant Professor	02
6		Dr. A.S. Lohakare	Assistant Professor	02
7		Dr. R. V. Bhalerao	Assistant Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	M.Sc.(Horti.)	24	12
2	2019-20	M.Sc.( Horti.)	24	12
3	2020-21	M.Sc.( Horti.)	24	12
4	2021-22	M.Sc.( Horti.)	24	12
5	2022-23	M.Sc.( Horti.)	24	12

**\*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)**

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and vending machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the M.Sc. (Horti.) students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. Most of the M.Sc. (Horti.) research conducted at this

location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this Department.

**Students, parents, industries, employers, farmers etc. (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale.

			Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Fruit)	7	7	7	7	7	7	00	00	00	00	00

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Horticulture	M.Sc. (Hort.) Fruit Science	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app etc.

- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Horti.) students for assessing research articles, referencing research journals, thesis etc.
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.

- Learning Management system (LMS): Google classroom for M.Sc. (Horti.) students.
- Conducted online examination for M.Sc. (Horti.) students.
- M.Sc. (Horti.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**


I **Dr. Syed Ismail**, Dean (Agri.), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



**(Syed Ismail)**  
**Dean (Agri)**

## Appendix-I M.Sc. Students Feedback


2



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani

**STUDENTS FEEDBACK FORM**

1	Name of the Student	Gawade Raju M.		
2	Registration No.	2018MT/01M.		
3	Degree and Semester	M.Sc. IV <sup>th</sup>		
4	Name of Department (for M.Sc. & Ph. D. Students)	Fruit Science		
5	Department Library facilities (for M.Sc. & Ph. D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crops Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature





VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH  
**Faculty of Horticulture**  
**Department of Fruit Science**  
**College of Agriculture, Parbhani**



## 6.4 Self-study report for the programme Ph.D. (Horticulture) in Fruit Science

### 6.4.1 Brief history of degree programme

#### 1. Year of start

The College of Agriculture, Parbhani was established in the year 1956. Further Ph.D. (Horticulture) degree programme was started in 1970 and Ph.D. (Horticulture) in Fruit Science was started in 2008.

#### 2. Objectives

1. To educate, train and generate experts in the field of agricultural education and develop human resource.
2. To develop demand driven teaching for Horticulture (Fruit Science) in general and for the region in particular.
3. To develop agricultural technologies for farmers
4. To carry out need based as well as applied research in horticulture and to transfer horticulture technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the technologies for agro-based small scale industries.

#### 3. Accomplishment

##### ▪ Teaching:

Common Entrance Test (CET) is made compulsory for admissions to Ph.D. degree programme for quality education.

During last five years, 15 students successfully completed their degree programme in Ph.D. (Horticulture) in Fruit Science discipline. The college has signed MoU with reputed institutes like

Sr. No.	Name of Institute	Subject of MoU	With whom it is signed	Date of signing MoU	Current Status	Outcome of the MoU
1.	University of Horticultural Sciences Bagalkot, Karnatakka	For facilitating students training/ post graduate	<b>Registrar</b> , University of Horticultural Sciences Bagalkot,	31.12.2020	Active	One Ph.D. students doing there research in

		research	Karnataka			Grape
3.	ICAR-National Research centre for Grape, Pune	For facilitating students training/ post graduate research	<b>Director</b> ICAR-National Research centre for Grape, Pune	02.12.2021	Active	Sharing of information

Since academic year 2016-17 cashless transactions are initiated for payment of fees.



**College of Agriculture, VNMKV, Parbhani**



▪ **Research:**

The main mandate of the Department is to impart quality horticulture education; hence the research is mainly carried out through Ph.D. students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. students. BOS is the high power body in the field of Education and Research for its policies. More than 15 thesis on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

Recommendation for maximum yield and economic returns of banana recommended (200:160:200) dose of 70% water soluble fertilisers with given schedule is applied through drip is recommended under Marathwada region. (Joint AGRESKO-2021 held at Dr BSKKV, Dapoli).



**Ph.D. (Agri.) students working in Laboratory on their Research topic.**



▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in Ph.D. Horticulture in Fruit Science through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All Faculty of the department are actively involved and Head department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in Shetkari Melava and Farmers group discussion organized by the University and also contributed in Agro Advisory services ( Gramin Krishi Mosam Seva) for the farmers.



**Visit of Hon. Vice Chancellor sir to Department of Horticulture & College of Horticulture**

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR for 60 intake (college has 139 M.Sc. Agri. intake)	Deviation**
1	2018-19	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	2	1	-	33.33
		Assistant Professor	3	2	-	40.00
2	2019-20	Head	1	-	-	00
		Professor	-	1	-	100
		Associate Professor	1	2	-	66.66
		Assistant Professor	3	2	-	40.0
3	2020-21	Head	-	1	-	100
		Professor	1	-	-	00
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40.0
4	2021-22	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
		Assistant Professor (Adhoc)	5	-	-	00
5	2022-23	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	1	2	-	66.66
		Assistant Professor	2	3	-	60
		Assistant Professor (Adhoc)	3	-	-	00

\* The faculties mentioned above are allotted for B.Sc., M.Sc. & Ph.D. Degree programme



### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	3	5	-	-
2		Supporting including farm and field workers	2	2	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-

\* Above Technical / supporting staff are helping B.Sc. (H.), M.Sc. (Horticulture) & Ph.D. (Horticulture) students for conducting field trials, practicals and demonstrations.

#### **6.4.4 Class room and Laboratories (2018-19 to 2022-23)**

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### **1. Classroom**

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Horticulture</b>			
1	Classroom No. 1	80	Sufficient for Ph.D. (Horticulture) in Fruit Science Students
2	Classroom No. 2	40	
3	Seminar Hall	40	

##### **2. Laboratories**



**Ph.D. (Hort) Fruit Science Students Working in Laboratory**

**Laboratories**

Laboratory	List of major equipment	Capacity	Remark
<b>Department of Horticulture</b>			
<b>PG Laboratory</b>	1 Slides/ Cover Slips	40	Sufficient for Ph.D. (Horticulture) in Fruit Science students
	2 Electronic Moisture Meter		
	3 Hygrometer		
	4 Electronic Weighing Balance (1 gm Capacity)		
	5 Pan Balance (1 kg & 10 kg Capacity each )		
	6 Hot Air Oven		
	7 BOD Incubator		
	8 Centrifuge Machine		
	9 Distillation Assembly		
	10 Hand Refractometer		
	11 Digital Refractometer		
	12 Microwave Oven		
	13 Fruit Crusher		
	14 Refrigerator		
	15 Deep Freezer		
	16 Grinding and Mixing Machine		
	17 Pulper		
	18 Fruit Penetrometer		
	19 Chlorophyll Content Meter (SPAD Meter )		
	20 Oven		
	21 Grafting & Budding Knife		
	22 Secateurs		
	23 Pruning Saw		
	24 Loppers		
	25 Water Bath		
	26 Muffle furnace		
	27 Spectrophotometer		
	28 Sieves		
	29 Glass container		
	30 Digital Leaf Area Meter (with digital display)		

**3. Farm facilities**

❖ **Total Farm area in hectare : 28.32 ha**

❖ **Irrigated Land in hectare : 15.00 ha**

**Instructional Farm and facilities available:**

The department has 28.32 ha land and crop cafeteria for Ph.D. (Horticulture) in Fruit Science research work, for conduct of Ph.D. (Horticulture) in Fruit Science practicals, seed production purpose. The various structures and irrigation facilities required for the purpose

are available on the farm which includes poly houses, green house structures, shade nets, wells, tube wells etc. The most important instruments, equipments available on the department farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available. Composting unit as well as vermin compost units are available to utilize farm waste material which is used for Ph.D. (Horticulture) in Fruit Science research trials conducted on instructional farms.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Horticulture</b>		
<b>28.32 ha</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 wells and 2 bore wells.	<ul style="list-style-type: none"><li>About 3 experiments of Ph. D. (Horti) Fruit Science students are conducted every year, respectively.</li></ul>

<b>Department of Horticulture Revenue receipts of the selling of Fruit/Vegetable/ Flowers</b>			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
<b>1.</b>	2018-19	0.66	<b>0.66</b>
<b>2</b>	2019-20	0.32	<b>0.32</b>
<b>3</b>	2020-21	0.54	<b>0.54</b>
<b>4</b>	2021-22	0.70	<b>0.70</b>
<b>5</b>	<b>2022-23</b>	<b>0.10</b>	<b>0.10</b>
	Total	2.32	<b>2.32</b>

**4. Workshop/Other instructional unit if any give details.**

**5. Theory and practical batches for the degree programme.**

<b>Ph.D. (Horticulture) Average 3 students per year</b>					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	PracticalBatch	Theory Batch	PracticalBatch
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### Discipline wise Ph.D. Course Curriculum:

The course plan for the Ph.D. (Horticulture) in Fruit Science degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. (Horticulture) in Fruit Science student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. (Horticulture) in Fruit Science student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

Department	Hands on training
Ph.D. Horticulture (Fruit Science)	<ul style="list-style-type: none"> <li>▪ Determination of moisture, relative water content and physiological loss in weight</li> <li>▪ Determination of biochemical components in horticultural produce</li> <li>▪ Calibration and standardization of instruments</li> <li>▪ Textural properties of harvested produce</li> <li>▪ Seed treatment/ hardening practices</li> <li>▪ Container seedling production</li> <li>▪ Documentation of germplasm- maintenance of passport data and other records of accessions</li> <li>▪ Field exploration trips and sampling procedures</li> <li>▪ Exercise on ex situ conservation – cold storage, pollen/ seed storage</li> <li>▪ Cryopreservation</li> </ul>

#### 6.4.6 Supervision of students in Ph.D. (Horticulture) in Fruit Science degree programmes (2018-19 to 2022-23)

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
Department of Horticulture				
1	2018-19	Dr. D.P. Waskar	DOR, VNMKV Parbhani	1
2		Dr. G.M. Waghmare	Head	1
3		Dr. V.S. Khandare	Professor	2
4		Dr. S.J. Shinde	Associate Professor	2
5		Dr. V.N. Shinde	Assistant Professor	1



6		Dr. V.V. Bhagat	Assistant Professor	1
1	2019-20	Dr. T.B. Tambe	Professor	1
2		Dr. V.S. Khandare	Professor	3
3		Dr. S.J. Shinde	Associate Professor	1
4		Dr. A.M. Bhosale	Assistant Professor	2
5		Dr. V.V. Bhagat	Assistant Professor	2
6		Dr. S.R. Barkule	Assistant Professor	1
1	2020-21	Dr. V.S. Khandare	Professor	3
2		Dr. S.J. Shinde	Associate Professor	2
3		Dr. R.V. Bhalerav	Assistant Professor	3
4		Dr. V.V. Bhagat	Assistant Professor	1
5		Prof. R.D. Bagele	Assistant Professor	1
1	2021-22	Dr. G.M. Waghmare	Head	1
2		Dr. V.S. Khandare	Professor	3
3		Dr. S.J. Shinde	Associate Professor	1
4		Dr. B.M.Kallabandi	Associate Professor	1
5		Dr. A.M. Bhosale	Assistant Professor	1
6		Dr. R.V. Bhalerav	Assistant Professor	1
7		Dr. V.V. Bhagat	Assistant Professor	1
8		Dr. S.R. Barkule	Assistant Professor	1
9		Dr. A.S. Lohakare	Assistant Professor	1
1	2022-23	Dr. G.M. Waghmare	Head	1
2		Dr. V.S. Khandare	Professor	3
3		Dr. S.J. Shinde	Associate Professor	1
4		Dr. B.M.Kallabandi	Associate Professor	1
5		Dr. A.M. Bhosale	Assistant Professor	2
6		Dr. R. V. Bhalerao	Assistant Professor	2

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of Degree Programme</b>	<b>Intake capacity*</b>	<b>No. of qualified faculty</b>
<b>1</b>	2018-19	Ph.D. (Horticulture) in Fruit Science	03	12
<b>2</b>	2019-20	Ph.D. (Horticulture) in Fruit Science	03	12
<b>3</b>	2020-21	Ph.D. (Horticulture) in Fruit Science	03	12
<b>4</b>	2021-22	Ph.D. (Horticulture) in Fruit Science	03	12
<b>5</b>	2022-23	Ph.D. (Horticulture) in Fruit Science	03	12
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and winding machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this department.

Most of the Ph.D students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. Most of the Ph.D research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with students participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test

			<p>report.</p> <p>Liquid bio fertilizers are available to farmers for sale.</p> <p>Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community.</p> <p>Feedback were submitted in research review at university level.</p> <p>Need based and location specific research programme was initiated.</p>
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
Ph.D. (Horticulture) in Fruit Science	03	03	03	03	03	03	00	00	01 (2.70%)	00	00
<p>*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</p> <p>**Intake of Ph.D. degree from the academic year 2016-17</p>											

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. Department has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	( Horticulture) Fruit Science)	Ph.D. ( Horticulture) in Fruit Science	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app etc.

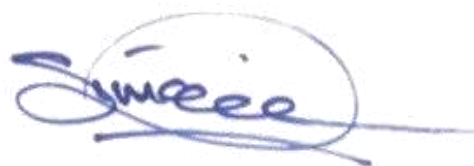
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for Ph.D. students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Development of e-content regarding curriculum and upload on e-AgriDiksha.
- Learning Management system (LMS): Google classroom for Ph.D. students.
- Conducted online examination for Ph.D. students.
- Ph.D. classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**6.4.10** The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.

**6.4.11** Since the accreditation of programmes is related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

**6.4.12** Certificate (Applicable when SSR is submitted for programme)


I **Dr. Syed Ismail**, Dean (Agril.), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri)**



## Appendix-I Ph.D. Students Feedback



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani





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### STUDENTS' FEEDBACK FORM

1	Name of the Student	Dhanashri Poojip Waghmare		
2	Registration No	2021A/31P		
3	Degree and Semester	Ph.D IV <sup>th</sup> sem.		
4	Name of Department (for M.Sc. & Ph.D. Students)	Horticulture (Fruit Science)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

21.8.23



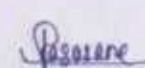


  
Student's Signature


**कृषि महाविद्यालय परभणी**  
**वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी**  
 College of Agriculture, Parbhani  
 Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani
 

**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Sasane Pratiksha Ashok		
2	Registration No	2022A/33P		
3	Degree and Semester	Ph.D (Agri.) II semester		
4	Name of Department (for M.Sc. & Ph.D. Students)	Horticulture (Fruit Science)		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied




 Student's Signature



VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH  
**Faculty of Horticulture**  
**Department of Vegetable Science**  
**College of Agriculture, Parbhani**



## 6.4 Self-study report for the programme: - M.Sc. (Horticulture) in Vegetable Science

### 6.4.1 Brief history of degree programme

#### 1. Year of start

The Department of Horticulture, Parbhani was established in the year 1956. Further M.Sc. (Horticulture) degree programme started in the year 1970 and M.Sc. (Horticulture) in vegetable science degree programme started in the year 2008.

#### 2. Objectives

1. To educate, train and generate experts in the field of horticultural education and develop human resource.
2. To develop demand driven teaching for Horticulture in general and for the region in particular.
3. To develop horticulture technologies for farmers
4. To carry out need based as well as applied research in horticulture and to transfer horticulture technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the technologies for agro-based small scale industries.

#### 3. Accomplishments

##### ▪ Teaching:

Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Horticulture) in Vegetable Science degree programme for quality education.

During last five years 45 students successfully completed their degree programme in M.Sc. (Agri.) in vegetable science. The college has signed MoU with reputed institutes like

Sr. No.	Name of Institute	Subject of MoU	With whom it is signed	Date of signing MoU	Current Status	Outcome of the MoU
1.	University of Horticultural Sciences Bagalkot, Karnatakka	For facilitating students training/ post graduate research	Registrar, University of Horticultural Sciences Bagalkot, Karnatakka	31.12.2020	Active	Sharing of information



2.	ICAR-National Research centre for Onion and Garlic research, Rajgurunagar	For facilitating students training/ post graduate research	<b>Director</b> ICAR-National Research centre for Onion and garlic research Rajgurunagar		Active	Sharing of information
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**College of Agriculture, VNMKV, Parbhani**



▪ **Research:**

The main mandate of the Department of Horticulture in Vegetable Science is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Horticulture) in Vegetable Science students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Horticulture) Vegetable Science in students. BOS is the high power body in the field of Education and Research for its policies. More than 45 thesis on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

**Released Variety Tomato** Var. Parbhani Tomato – 01 Joint AGRESKO-2019 held at MPKV, Rahuri

**Research recommendations in Joint AGRESKO – 09**

1. In Marathwada region for higher yield, net monetary return and water use efficiency of summer okra, it is recommended to schedule alternate day drip at 80 % of crop evapotranspiration through inline lateral laid at the centre of raised bed having width of 90 cm and two rows of okra sown at the spacing of 60 cm x 30 cm and covered by 30 micron silver black polythene mulch. (Joint AGRESKO-2019 held at MPKV, Rahuri).
2. Scheduling of drip irrigation at 80% of crop evapotranspiration at alternate day through inline lateral laid at the centre of raised bed having top width of 90 cm and two rows of tomato sown at the spacing of 60x60 cm and covered by 30 micron silver black polythene mulch is recommended in Marathwada region for realising higher fruit yield and net monetary returns of rabi tomato. (Joint AGRESKO-2019 held at MPKV, Rahuri).
3. For higher curd yield and net monetary returns of summer cabbage in Marathwada region it is recommended to schedule alternate day drip irrigation at 80 % crop evapotranspiration through inline lateral laid at the centre of the bed having two rows of cabbage planted at spacing of 50x45 cm and drip fertigation of 120:60:60 N,P<sub>2</sub>O<sub>5</sub>,K<sub>2</sub>O kg ha<sup>-1</sup> with N, P<sub>2</sub>O<sub>5</sub>,K<sub>2</sub>O in 8 equal splits @ 15 kg N, 7.5 kg P and K at an interval of 10 days from transplanting to 80 days after transplanting.. (Joint AGRESKO-2019 held at MPKV, Rahuri).



4. For higher bulb yield and net monetary returns of summer onion in Marathwad region, it is recommended to schedule alternate day drip irrigation at 60 % crop evapotranspiration through inline lateral laid at the centre of raised bed having six rows of onion palanted at the spacing of 15x7.5 cm and drip fertigation of 80:40:40 N,P<sub>2</sub>O<sub>5</sub>,K<sub>2</sub>O kgha<sup>-1</sup> with N, and ,K<sub>2</sub>O in 10 equal splits @ 8 kg and 4 kg, respectively and P<sub>2</sub>O<sub>5</sub> in 5 equal splits @ 8 kgha<sup>-1</sup> at an interval of 7 days from transplanting to 70 days after transplanting.. (Joint AGRESCO-2020 held at Dr PDKV, Akola-2020)

5. Turmeric seedlings prepared through rhizome cuttings having one eye bud raised in cocopeat is recommended for cost effective cultivation of turmeric (Joint AGRESCO-2020 held at Dr PDKV, Akola-2020).

6. On the basis, earliness, yield, curcumin content and maximum montetary return, Selam variety of turmeric was found highest among the rest of varieties of turmeric, hence Selam variety is recommended for cultivation under Marathwada condition (Joint AGRESCO-2020 held at Dr PDKV, Akola-2020)

7. For maximum yield and economic returns of banana recommended (200:160:200) dose of 70% water soluble fertilisers with given schedule is applied through drip is recommended under Marathwada region. (Joint AGRESCO-2021 held at Dr BSKKV, Dapoli)

8. Cultivation of Carom seed (Ajwain )cv.AA2 is recommended for gaining higher yield and net return in Marathwada region during *Rabi* season. (Joint AGRESCO-2021 held at Dr BSKKV, Dapoli)

9. Cultivation of Fennel (Sunf) cv.AF-1 is is recommended for gaining higher yield and net return in Marathwada region during *Rabi* season. (Joint AGRESCO-2021 held at Dr BSKKV, Dapoli)



**PG students working in Laboratory on their Research topic.**

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All Faculty of the department are actively involved and Head department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in Shetkari Melava and Farmers group discussion organized by the University and also contributed in Agro Advisory services ( Gramin Krishi Mosam Seva) for the farmers.



**Visit of Hon. Vice Chancellor sir and meeting with staff of Department of Horticulture**



**Visit of Hon. Agriculture Minister and Hon. Vice Chancellor sir to Horticulture Stall**

## 6.4.2 Faculty strength (2018-19 to 2022-23)

### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	2	1	-	33.33
		Assistant Professor	3	2	-	40
2	2019-20	Head	1	-	-	00
		Professor	-	1	-	100
		Associate Professor	1	2	-	66.66
		Assistant Professor	3	2	-	40
3	2020-21	Head	-	1	-	100
		Professor	1	-	-	00
		Associate Professor	-	3	--	100
		Assistant Professor	3	2	-	40
4	2021-22	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
		Assistant Professor (Adhoc)	5	-	-	00
5	2022-23	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	1	2	-	66.66
		Assistant Professor	2	3	-	60
		Assistant Professor (Adhoc)	3	-	-	00

\* The faculties mentioned above are allotted for B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme.

### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of Horticulture Department are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	3	5	-	-
2		Supporting including farm and field workers	2	2	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-

**\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.**

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Horticulture</b>			
1	Classroom No. 1	80	Sufficient for M.Sc. (Horticulture) in Vegetable Science Students
2	Classroom No. 2	40	
3	Seminar Hall	40	

##### 2. Laboratories



**M.Sc. (Horticulture) in Vegetable Science Students Working in Laboratory**

Laboratory	List of major equipment		Capacity	Remark
Department of Horticulture in Vegetable Science				
PG Laboratory	1	Slides/ Cover Slips	40	Sufficient for M.Sc. (Horticulture) in Vegetable Science Students
	2	Electronic Moisture Meter		
	3	Hygrometer		
	4	Electronic Weighing Balance (1 gm Capacity)		
	5	Pan Balance (1 kg & 10 kg Capacity each )		
	6	Hot Air Oven		
	7	BOD Incubator		
	8	Centrifuge Machine		
	9	Distillation Assembly		
	10	Hand Refractometer		
	11	Digital Refractometer		



	12	Microwave Oven		
	13	Fruit Crusher		
	14	Refrigerator		
	15	Deep Freezer		
	16	Grinding and Mixing Machine		
	17	Pulper		
	18	Fruit Penetrometer		
	19	Chlorophyll Content Meter (SPAD Meter )		
	20	Oven		
	21	Grafting & Budding Knife		
	22	Secateurs		
	23	Pruning Saw		
	24	Loppers		
	25	Water Bath		
	26	Muffle furnace		
	27	Spectrophotometer		
	28	Sieves		
	29	Glass container		
	30	Digital Leaf Area Meter (with digital display)		

### 3. Farm facilities

❖ **Total Farm area in hectare :** **28.32 ha**

❖ **Irrigated Land in hectare :** **15.00 ha**

#### Instructional Farm and facilities available:

The department of horticulture has 28.32 ha land and crop cafeteria for M.Sc. (Horticulture) in Vegetable Science research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes poly houses, green house structures, shade nets, wells, tube wells etc. The most important instruments, equipments available on the college farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available. Composting unit as well as vermin compost units are available to utilize farm waste material which is used for M.Sc. (Horticulture) in Vegetable Science research trials conducted on instructional farms.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Horticulture (Vegetable Science)</b>		
<b>28.32 ha</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 wells and 2 bore wells.	<ul style="list-style-type: none"> <li>About 10 experiments of M.Sc. (Horticulture) in vegetable students are conducted every year, respectively.</li> </ul>



Department of Horticulture Revenue receipts of the selling of Fruit/Vegetable/ Flowers			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
1	2018-19	0.66	<b>0.66</b>
2	2019-20	0.32	<b>0.32</b>
3	2020-21	0.54	<b>0.54</b>
4	2021-22	0.70	<b>0.70</b>
5	2022-23	0.10	<b>0.10</b>
	<b>Total</b>	<b>2.32</b>	<b>2.32</b>

#### 4. Workshop/Other instructional unit if any give details.

##### ➤ Department of Horticulture in (Vegetable Science)

1. One well equipped seminar hall for M.Sc. (Horticulture) in Vegetable Science students

#### 5. Theory and practical batches for the degree programme.

M.Sc. (Horticulture) Vegetable Science Average 7 students per year					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### • M.Sc. (Horticulture) in Vegetable Science degree Programme

As per the lesson plan, students practicalare conducted in a manner to give maximum exposure to the students forincreasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credits are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

### **Hands on training of M.Sc. (Horticulture) in Vegetable Science**

Details of courses offered by each department as per BSMA.

Department	Hands on training
<b>Department of Horticulture ( Vegetable Science )</b>	
<b>M.Sc. Horticulture in (Vegetable Science)  2022-23</b>	<ul style="list-style-type: none"><li>▪ Scientific raising of nursery and seed treatment</li><li>▪ Sowing and transplanting</li><li>▪ Scientific raising of nursery and seed treatment</li><li>▪ Sowing, transplanting vegetable grafting</li><li>▪ Preparation of plant growth</li><li>▪ regulator's solutions and their application</li><li>▪ Experiments in breaking and induction of dormancy by chemicals Induction of parthenocarpy and fruit ripening</li><li>▪ Floral biology and pollination behaviour of different vegetables</li><li>▪ Techniques of selfing and crossing of different vegetables viz., Cole crops, okra, cucurbits, tomato, eggplant, hot pepper, etc.</li><li>▪ Breeding system and handling of filial generations of different vegetables</li><li>▪ Floral mechanisms favouring self and often cross pollination</li><li>▪ Progeny testing and development of inbred lines</li><li>▪ Floral mechanisms favouring self and often cross pollination</li><li>▪ Progeny testing and development of inbred lines</li><li>▪ Study of various types of protected structure</li><li>▪ Study of different methods to control temperature, carbon dioxide and light</li><li>▪ Study of floral biology and pollination mechanisms in vegetables</li><li>▪ Determination of modes of pollination</li><li>▪ Identification and botanical description of plants and varieties</li><li>▪ Seed/planting material</li><li>▪ Identification, description, classification and maintenance of vegetable species and varieties</li></ul>

	<ul style="list-style-type: none"> <li>▪ Survey, collection of allied species and genera locally available</li> <li>▪ Methods of preparation and use of compost, vermi-compost, biofertilizers and bio pesticides</li> <li>▪ Soil solarisation; Use of green manures</li> <li>▪ Identification of seeds and plants</li> <li>▪ Botanical description of plant</li> <li>▪ Study of machinery and equipments used in processing of vegetable produce</li> <li>▪ Chemical analysis for nutritive value of fresh and processed vegetable</li> <li>▪ Studies on stages and maturing indices</li> <li>▪ Ripening of commercially important vegetable crops</li> </ul>
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**6.4.6 Supervision of students in M.Sc. (Horticulture) Vegetable Science degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Horticulture) in Vegetable Science</b>				
1	2018-19	Dr. G.M. Waghmare	Head	01
2		Dr. T.B. Tambe	Professor	01
3		Dr. Kallabandi	Associate Professor	01
4		Dr. V.N. Shinde	Assistant Professor	01
5		Dr. A.M. Bhosale	Assistant Professor	01
6		Dr. S.V. Dhrutraj	Assistant Professor	01
7		Prof. R.S. Borade	Assistant Professor	01
8		Dr. S.R. Barkule	Assistant Professor	01
1	2019-20	Dr. T.B. Tambe	Professor	03
2		Dr. S.J. Shinde	Associate Professor	02
3		Dr. V.N. Shinde	Assistant Professor	02
4		Dr. A.M. Bhosale	Assistant Professor	01
5		Dr. S.V. Dhrutraj	Assistant Professor	01
6		Dr. S.R. Barkule	Assistant Professor	02
1	2020-21	Dr. A.M. Bhosale	Assistant Professor	02
2		Dr. S.V. Dhrutraj	Assistant Professor	02
3		Dr. S.R. Barkule	Assistant Professor	01
4		Dr. A.S. Lohakare	Assistant Professor	03
5		Dr. V.N. Shinde	Assistant Professor	03
1	2021-22	Dr. G.M. Waghmare	Head	01
2		Dr. S.J. Shinde	Associate Professor	01
3		Dr. B.M.Kallabandi	Associate Professor	01
4		Dr. A.M. Bhosale	Assistant Professor	02
5		Dr. S.V. Dhrutraj	Assistant Professor	01

6		Dr. R.V. Bhalerav	Assistant Professor	01
7		Dr. S.R. Barkule	Assistant Professor	01
8		Dr. A.S. Lohakare	Assistant Professor	01
1	2022-23	Dr. G.M. Waghmare	Head	02
2		Dr. S.J. Shinde	Associate Professor	01
3		Dr. B.M.Kallabandi	Associate Professor	01
4		Dr. S.V. Dhrutraj	Assistant Professor	02
5		Dr. S.R. Barkule	Assistant Professor	02
6		Dr. A.S. Lohakare	Assistant Professor	02
7		Dr. R. V. Bhalerao	Assistant Professor	01

**Intake capacity and No. of qualified faculty: Vegetable science (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	M.Sc. (Horti.) in Vegetable Science	7	12
2	2019-20	M.Sc. (Horti.) in Vegetable Science	7	12
3	2020-21	M.Sc. (Horti.) in Vegetable Science	7	12
4	2021-22	M.Sc. (Horti.) in Vegetable Science	7	12
5	2022-23	M.Sc. (Horti.) in Vegetable Science	7	12
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and vending machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.



Most of the M.Sc. (Horticulture) in Vegetable Science students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. Most of the M.Sc. (Horticulture) in Vegetable Science research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this Department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of

			Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Horticulture) vegetable science	7	7	7	7	7	7	00	00	00	00	00

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
	Department of Horticulture Vegetable Science	M.Sc. (Hort.) in Vegetable Science	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app etc.

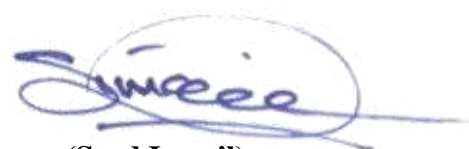
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Horticulture) in Vegetable Science students for assessing research articles, referencing research journals, thesis etc.
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) in Vegetable Science students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for M.Sc. (Horticulture) students.
- Conducted online examination for M.Sc. (Horticulture) in Vegetable Science students.
- M.Sc. (Horticulture) classes, id Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



**(Syed Ismail)**  
**Dean (Agri)**

Appendix-I  
M.Sc. Students Feedback



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani

STUDENTS FEEDBACK FORM

1	Name of the Student	Lohade Janabai Suresh		
2	Registration No.	2022H7/12M		
3	Degree and Semester	M.Sc. Horticulture (Veg. Sci) II <sup>nd</sup> yr III <sup>rd</sup> sem		
4	Name of Department (for M.Sc. & Ph. D. Students)	Horticulture (Veg. Sci)		
5	Department Library facilities (for M.Sc. & Ph. D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crops Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Student's Signature



कृषि महाविद्यालय परभणी  
 वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
 College of Agriculture, Parbhani  
 Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani

STUDENTS FEEDBACK FORM

1	Name of the Student	Kande Kalyani Babaji		
2	Registration No.	2022HT 11M		
3	Degree and Semester	MSc. Horticulture (Veg. Sci) II <sup>nd</sup> year III <sup>rd</sup> sem		
4	Name of Department (for M.Sc. & Ph. D. Students)	Horticulture (Veg. Sci)		
5	Department Library facilities (for M.Sc. & Ph. D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crops Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature





VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH  
**Faculty of Horticulture**  
**Department of Vegetable Science,**  
**College of Agriculture, Parbhani**



## 6.4 Self-study report for the programme Ph. D. (Horticulture) in Vegetable Science

### 6.4.1 Brief history of degree programme

#### 1. Year of start

The College of Agriculture, Parbhani was established in the year 1956. Further Ph.D. (Horticulture) in degree programme was started in 1970 and Ph.D (Horticulture) in Vegetable Science was started in 2008.

#### 2. Objectives

1. To educate, train and generate experts in the field of agricultural education and develop human resource.
2. To develop demand driven teaching for Horticulture in Vegetable Science in general and for the region in particular.
3. To develop agricultural technologies for farmers
4. To carry out need based as well as applied research in horticulture and to transfer horticulture technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the technologies for agro-based small scale industries.

#### 3. Accomplishment

##### ▪ Teaching:

Common Entrance Test (CET) is made compulsory for admissions to Ph.D. degree programme for quality education.

During last five years, 15 students successfully completed their degree programme in Ph.D.(Horticulture) in vegetable science disciplines. The college has signed MoU with reputed institutes like

Sr. No.	Name of Institute	Subject of MoU	With whom it is signed	Date of signing MoU	Current Status	Outcome of the MoU
1.	University of Horticultural Sciences Bagalkot, Karnatakka	For facilitating students training/ post graduate research	Registrar, University of Horticultural Sciences Bagalkot, Karnatakka	31.12.2020	Active	Sharing of information

3.	ICAR-National Research Centre for Onion & Garlic Research Rajgurunagar	For facilitating students training/ post graduate research	<b>Director</b> ICAR-National Research Centre for Onion & Garlic Research Rajgurunagar	02.12.2021	Active	Sharing of information
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Since academic year 2016-17 cashless transactions are initiated for payment of fees.



▪ **Research:**

The main mandate of the Department is to impart quality horticulture education; hence the research is mainly carried out through Ph.D (Horticulture) in Vegetable Science students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D (Horticulture) in Vegetable Science students. BOS is the high power body in the field of Education and Research for its policies. More than 15 thesis on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

**Released Variety** Tomato Var. Parbhani Tomato – 01 Joint AGRESKO-2019 held at MPKV, Rahuri

**Research recommendations in Joint AGRESKO – 09**

1. In Marathwada region for higher yield, net monetary return and water use efficiency of summer okra, it is recommended to schedule alternate day drip at 80 % of crop evapotranspiration through inline lateral laid at the centre of raised bed having width of 90 cm and two rows of okra sown at the spacing of 60 cm x 30 cm and covered by 30 micron silver black polythene mulch. (Joint AGRESKO-2019 held at MPKV, Rahuri).
2. Scheduling of drip irrigation at 80% of crop evapotranspiration at alternate day through inline lateral laid at the centre of raised bed having top width of 90 cm and two rows of tomato sown at the spacing of 60x60 cm and covered by 30 micron silver black polythene mulch is recommended in Marathwada region for realising higher fruit yield and net monetary returns of rabi tomato. (Joint AGRESKO-2019 held at MPKV, Rahuri).
3. For higher curd yield and net monetary returns of summer cabbage in Marathwada region it is recommended to schedule alternate day drip irrigation at 80 % crop evapotranspiration through inline lateral laid at the centre of the bed having two rows of cabbage planted at spacing of 50x45 cm and drip fertigation of 120:60:60 N, P<sub>2</sub>O<sub>5</sub>, K<sub>2</sub>O kg ha<sup>-1</sup> with N, P<sub>2</sub>O<sub>5</sub>, K<sub>2</sub>O in 8 equal splits @ 15 kg N, 7.5 kg P and K at an interval of 10 days from transplanting to 80 days after transplanting.. (Joint AGRESKO-2019 held at MPKV, Rahuri).
4. For higher bulb yield and net monetary returns of summer onion in Marathwad region, it is recommended to schedule alternate day drip irrigation at 60 % crop evapotranspiration

through inline lateral laid at the centre of raised bed having six rows of onion palanted at the spacing of 15x7.5 cm and drip fertigation of 80:40:40 N,P<sub>2</sub>O<sub>5</sub>,K<sub>2</sub>O kgha<sup>-1</sup> with N, and ,K<sub>2</sub>O in 10 equal splits @ 8 kg and 4 kg, respectively and P<sub>2</sub>O<sub>5</sub> in 5 equal splits @ 8 kgha<sup>-1</sup> at an interval of 7 days from transplanting to 70 days after transplanting.. (Joint AGRESCO-2020 held at Dr PDKV, Akola-2020)

5. Turmeric seedlings prepared through rhizome cuttings having one eye bud raised in cocopeat is recommended for cost effective cultivation of turmeric (Joint AGRESCO-2020 held at Dr PDKV, Akola-2020).

6. On the basis, earliness, yield, curcumin content and maximum montetary return, Selam variety of turmeric was found highest among the rest of varieties of turmeric, hence Selam variety is recommended for cultivation under Marathwada condition (Joint AGRESCO-2020 held at Dr PDKV, Akola-2020)

7. For maximum yield and economic returns of banana recommended (200:160:200) dose of 70% water soluble fertilisers with given schedule is applied through drip is recommended under Marathwada region. (Joint AGRESCO-2021 held at Dr BSKKV, Dapoli)

8. Cultivation of Carom seed (Ajwain )cv.AA2 is recommended for gaining higher yield and net return in Marathwada region during *Rabi* season. (Joint AGRESCO-2021 held at Dr BSKKV, Dapoli)

9. Cultivation of Fennel (Sunf) cv.AF-1 is is recommended for gaining higher yield and net return in Marathwada region during *Rabi* season. (Joint AGRESCO-2021 held at Dr BSKKV, Dapoli)

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in horticulture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All Faculty of the department are actively involved and Head department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in Shetkari Melava and Farmers group discussion organized by the University and also contributed in Agro Advisory services ( Gramin Krishi Mosam Seva) for the farmers.





Visit

of Hon. Vice Chancellor sir to Department of Horticulture

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	2	1	-	33.33
		Assistant Professor	3	2	-	40
2	2019-20	Head	1	-	-	00
		Professor	-	1	-	100
		Associate Professor	1	2	-	66.66
		Assistant Professor	3	2	-	40
3	2020-21	Head	-	1	-	100
		Professor	1	-	-	00
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
4	2021-22	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
		Assistant Professor (Adhoc)	5	-	-	00
5	2022-23	Head	1	-	-	00
		Professor	1	-	-	00
		Associate Professor	1	2	-	66.66
		Assistant Professor	2	3	-	60
		Assistant Professor (Adhoc)	3	-	-	00

\* The faculties mentioned above are allotted for B.Sc., M.Sc. & Ph.D. Degree programme



### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this department are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	3	5	-	-
2		Supporting including farm and field workers	2	2	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-

\* Above Technical / supporting staff are helping B.Sc. (H.), M.Sc. (Horticulture) in & Ph.D. (Horticulture) instudents for conducting field trials, practicals and demonstrations.

### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

#### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
Department of Horticulture			
1	Classroom No. 1	80	Sufficient for Ph.D. (Horticulture) in Vegetable science Students
2	Classroom No. 2	40	
3	Seminar Hall	40	

## 2. Laboratories



**Ph.D. (Horticulture) in Vegetable Science Students Working in Laboratory**

### Laboratories

Laboratory	List of major equipment	Capacity	Remark
<b>Department of Horticulture</b>			
<b>PG Laboratory</b>	1 Slides/ Cover Slips	40	Sufficient for Ph.D. (Horticulture) in Vegetable science students
	2 Electronic Moisture Meter		
	3 Hygrometer		
	4 Electronic Weighing Balance (1 gm Capacity)		
	5 Pan Balance (1 kg & 10 kg Capacity each )		
	6 Hot Air Oven		
	7 BOD Incubator		
	8 Centrifuge Machine		
	9 Distillation Assembly		
	10 Hand Refractometer		
	11 Digital Refractometer		
	12 Microwave Oven		
	13 Fruit Crusher		
	14 Refrigerator		
	15 Deep Freezer		
	16 Grinding and Mixing Machine		
	17 Pulper		
	18 Fruit Penetrometer		
	19 Chlorophyll Content Meter (SPAD Meter )		
	20 Oven		
	21 Grafting & Budding Knife		
	22 Secateurs		
	23 Pruning Saw		
	24 Loppers		
	25 Water Bath		
	26 Muffle furnace		
	27 Spectrophotometer		
	28 Sieves		
	29 Glass container		
	30 Digital Leaf Area Meter (with digital display)		

### 3. Farm facilities

❖ **Total Farm area in hectare : 28.32 ha**

❖ **Irrigated Land in hectare : 15.00 ha**

#### Instructional Farm and facilities available:

The department has 28.32 ha land and crop cafeteria for Ph.D Horticulture in Vegetable science research work, for conduct of Ph.D. Horticulture in Vegetable science practicals, seed production purpose. The various structures and irrigation facilities required

for the purpose are available on the farm which includes poly houses, green house structures, shade nets, wells, tube wells etc. The most important instruments, equipments available on the department farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available. Composting unit as well as vermin compost units are available to utilize farm waste material which is used for Ph.D Horticulture in Vegetable science research trials conducted on instructional farms.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Horticulture in Vegetable science</b>		
<b>28.32 ha</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 wells and 2 bore wells.	<ul style="list-style-type: none"> <li>About 3 experiments of Ph. D. (Horticulture) in Vegetable science are conducted every year respectively.</li> </ul>

<b>Department of Horticulture Revenue receipts of the selling of Fruit/Vegetable/ Flowers</b>			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
1.	2018-19	0.66	<b>0.66</b>
2	2019-20	0.32	<b>0.32</b>
3	2020-21	0.54	<b>0.54</b>
4	2021-22	0.70	<b>0.70</b>
5	<b>2022-23</b>	<b>0.10</b>	<b>0.10</b>
	Total	2.32	<b>2.32</b>

#### 4. Workshop/Other instructional unit if any give details.

#### 5. Theory and practical batches for the degree programme.

<b>Ph.D. (Horticulture) in Vegetable science in Average 3 students per year</b>					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	PracticalBatch	Theory Batch	PracticalBatch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

#### Disciplinewise Ph.D. Course Curriculum:

The course plan for the Ph.D. (Horticulture) in Vegetable science degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken

into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide Ph.D. Horticulture in Vegetable science student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. Horticulture in Vegetable science student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

Department	Hands on training
Ph.D. Horticulture In (Vegetable Science)	<ul style="list-style-type: none"><li>▪ Identification of susceptibility and tolerance symptoms to various types of stress in vegetable crops.</li><li>▪ Measurement of tolerance to various stresses in vegetable crops.</li><li>▪ Short term experiments on growing vegetable under water deficit, water logging, salinity and sodicity, high and low temperature conditions.</li><li>▪ 4. Use of chemicals for alleviation of different stresses.</li><li>▪ General procedures of seed certification</li><li>▪ Field inspection and standards</li><li>▪ Isolation and rouging</li><li>▪ Inspection and sampling at harvesting, threshing and processing</li><li>▪ Documentation of germplasm- maintenance of passport data and other records of accessions</li><li>▪ Field exploration trips and sampling procedures</li><li>▪ Exercise on ex situ conservation – cold storage, pollen/seed storage</li><li>▪ Cryopreservation</li><li>▪ Micro-propagation, Pollen- Ovule and Embryo culture- Synthetic seed production.</li><li>▪ In vitro mutation induction, in vitro rooting – hardening at primary and secondary nurseries.</li><li>▪ DNA isolation from economic vegetable crop varieties – Quantification and Amplification (2) DNA and Protein profiling – molecular markers, PCR Handling.</li><li>▪ Vectors for cloning and particle bombardment.</li><li>▪ Determination of moisture, relative water content and physiological loss in weight</li><li>▪ Determination of biochemical components in vegetables</li><li>▪ Calibration and standardization of instruments</li><li>▪ Textural properties of harvested produce</li></ul>



**6.4.6 Supervision of students in Ph.D. Horticulture in Vegetable science degree programmes  
(2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Horticulture</b>				
1	2018-19	Dr. D.P. Waskar	DOR, VNMKV Parbhani	1
2		Dr. G.M. Waghmare	Head	1
3		Dr. V.S. Khandare	Professor	2
4		Dr. S.J. Shinde	Associate Professor	2
5		Dr. V.N. Shinde	Assistant Professor	1
6		Dr. V.V. Bhagat	Assistant Professor	1
1	2019-20	Dr. T.B. Tambe	Professor	1
2		Dr. V.S. Khandare	Professor	3
3		Dr. S.J. Shinde	Associate Professor	1
4		Dr. A.M. Bhosale	Assistant Professor	2
5		Dr. V.V. Bhagat	Assistant Professor	2
6		Dr. S.R. Barkule	Assistant Professor	1
1	2020-21	Dr. V.S. Khandare	Professor	3
2		Dr. S.J. Shinde	Associate Professor	2
3		Dr. R.V. Bhalerav	Assistant Professor	3
4		Dr. V.V. Bhagat	Assistant Professor	1
5		Prof. R.D. Bagele	Assistant Professor	1
1	2021-22	Dr. G.M. Waghmare	Head	1
2		Dr. V.S. Khandare	Professor	3
3		Dr. S.J. Shinde	Associate Professor	1
4		Dr. B.M.Kallabandi	Associate Professor	1
5		Dr. A.M. Bhosale	Assistant Professor	1
6		Dr. R.V. Bhalerav	Assistant Professor	1
7		Dr. V.V. Bhagat	Assistant Professor	1
8		Dr. S.R. Barkule	Assistant Professor	1
9		Dr. A.S. Lohakare	Assistant Professor	1
1	2022-23	Dr. G.M. Waghmare	Head	1
2		Dr. V.S. Khandare	Professor	3
3		Dr. S.J. Shinde	Associate Professor	1
4		Dr. B.M.Kallabandi	Associate Professor	1
5		Dr. A.M. Bhosale	Assistant Professor	2
6		Dr. R. V. Bhalerao	Assistant Professor	2

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of Degree Programme</b>	<b>Intake capacity*</b>	<b>No. of qualified faculty</b>
<b>1</b>	2018-19	Ph.D. (Horticulture) in Vegetable Science	03	12
<b>2</b>	2019-20	Ph.D. (Horticulture) in Vegetable Science	03	12
<b>3</b>	2020-21	Ph.D. (Horticulture) in Vegetable Science	03	12
<b>4</b>	2021-22	Ph.D. (Horticulture) in Vegetable Science	03	12
<b>5</b>	2022-23	Ph.D. (Horticulture) in Vegetable Science	03	12
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and winding machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the Ph. D. students of this college are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. Most of the Ph. D research conducted at this location is preferably need based on the feedback of the farmers. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with students participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee

5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback were submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
Ph.D. (Horticulture) in Vegetable Science	3	3	3	3	3	3	00	00	01 (2.70%)	00	00
<p>*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</p> <p>**Intake of Ph.D. degree from the academic year 2016-17</p>											

#### **6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)**

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Dept. of Horticulture in Vegetable Science	Ph.D. (Horticulture) in Vegetable Science	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app etc.

- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for Ph.D. (Horticulture) in Vegetable Science students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Development of e-content regarding curriculum and upload on e-AgriDiksha.
- Learning Management system (LMS): Google classroom for Ph.D. (Horticulture) in Vegetable Science students.
- Conducted online examination for Ph.D. (Horticulture) in Vegetable Science students.
- Ph.D. classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

#### **6.4.12 Certificate (Applicable when SSR is submitted for programme)**


I **Dr. Syed Ismail**, Dean (Agri.) College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri)**



## Appendix-I Ph.D. Students Feedback



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasanta Naik Marathwada Krishi Vidyapeeth, Parbhani




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### STUDENTS' FEEDBACK FORM

1	Name of the Student	Khaat Manisha Ankush		
2	Registration No	20224135P		
3	Degree and Semester	II <sup>nd</sup> (Ph.D.)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Horticulture		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Ed*

*21.8.23*



*Khaat*

Student's Signature



VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH  
PARBHANI - 431 402 [MAHARASHTRA]



**Faculty of Horticulture**  
**Department of Floriculture and Landscaping**  
**College of Agriculture, Parbhani**

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## **6.4 Self-study report for the programme:- M.Sc. (Horticulture) in Floriculture and Landscaping**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Horticulture, Parbhani was established in the year 1956. Further M.Sc. (Horticulture) degree programme started in the year 1970 and M.Sc. (Horticulture) in Floriculture and Landscaping degree programme started in the year 2008.

#### **2. Objectives**

1. To educate, train and generate experts in the field of horticultural education and develop human resource.
2. To develop demand driven teaching for Horticulture in general and for the region in particular.
3. To develop horticulture technologies for farmers
4. To carry out need based as well as applied research in horticulture and to transfer horticulture technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the technologies for agro-based small scale industries.

#### **3. Accomplishments**

##### **▪ Teaching:**

Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Horti.) in Floriculture and Landscaping degree programme for quality education.

During last five years, 15 students successfully completed their degree programme in M.Sc. (Horti.) in Floriculture and Landscaping disciplines. The college has signed MoU with reputed institutes like

Sr. No.	Name of Institute	Subject of MoU	With whom it is signed	Date of signing MoU	Current Status	Outcome of the MoU
1.	ICAR-Directorate of Floricultural Research Pune	For facilitating students training/ post graduate research	<b>Director</b> ICAR-Directorate of Floricultural Research Pune	08.01.2021	Active	

Since academic year 2016-17 cashless transactions are initiated for payment of fees.



**College of Agriculture, VNMKV, Parbhani**



▪ **Research:**

The main mandate of the Floriculture and Landscaping Department is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Horti.) in Floriculture and Landscaping students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Horti.) Floriculture and Landscaping students. BOS is the high power body in the field of Education and Research for its policies. More than 892 theses on various research topics were submitted. Theses submitted by the students act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAUs. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All Faculty of the department are actively involved and Head department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in Shetkari Melava and Farmers group discussion organized by the University and also contributed in Agro Advisory services (Gramin Krishi Mosam Seva) for the farmers.



**Visit of Hon. Chief Minister and Hon. Vice Chancellor sir to Horticulture Stall**





Participation of department in Exhibitions held in Maharashtra State

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	1	-	-	0
		Professor	1	-	-	0
		Associate Professor	2	1	-	33.33
		Assistant Professor	3	2	-	40
2	2019-20	Head	1	-	-	0
		Professor	-	1	-	100
		Associate Professor	1	2	-	66.66
		Assistant Professor	3	2	-	40
3	2020-21	Head	-	1	-	100
		Professor	1	-	-	0
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
4	2021-22	Head	1	-	-	0
		Professor	1	-	-	0
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
		Assistant Professor (Adhoc)	5	-	-	0
5	2022-23	Head	1	-	-	0
		Professor	1	-	-	0



	Associate Professor	1	2	-	66.66
	Assistant Professor	2	3	-	60
	Assistant Professor (Adhoc)	3	-	-	0

**\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme**

#### **6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of Floriculture and Landscaping Department are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	3	5	-	-
2		Supporting including farm and field workers	2	2	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-

**\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.**

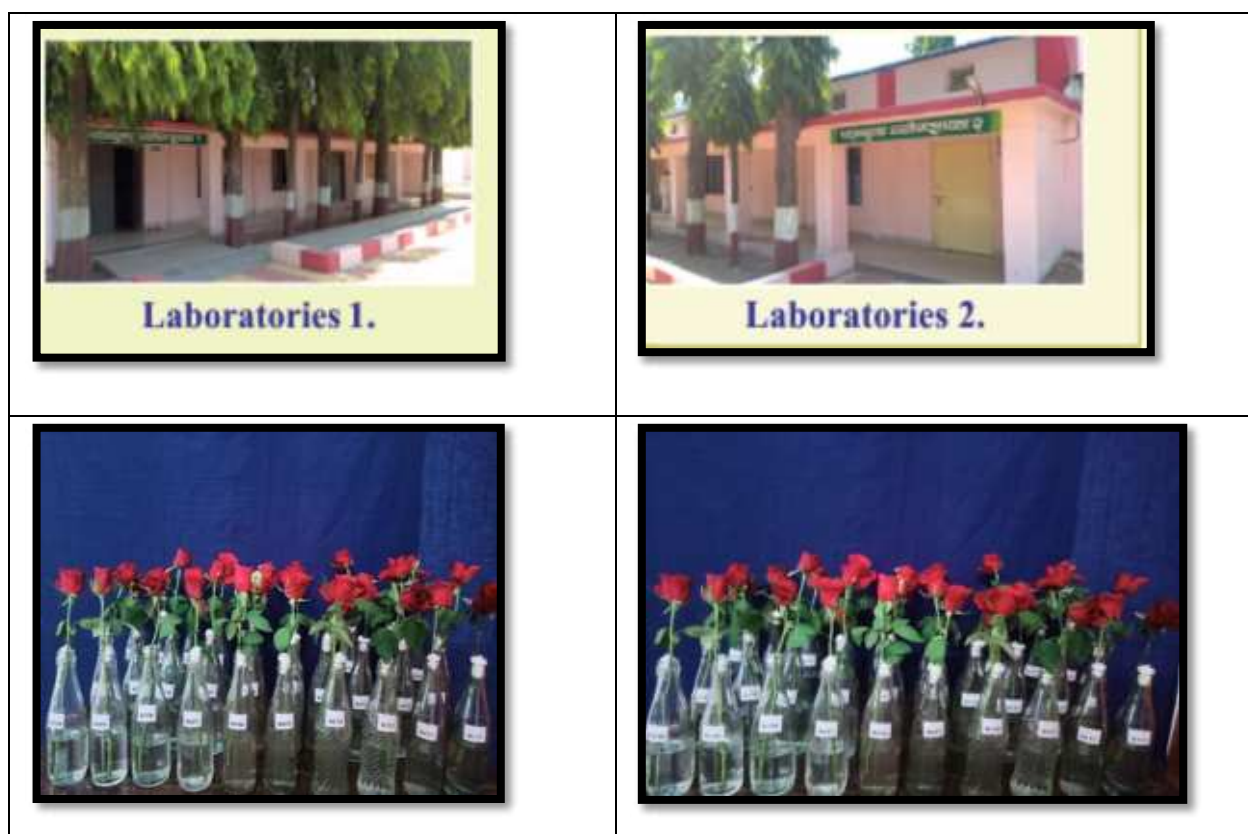
#### **6.4.4 Class room and Laboratories (2018-19 to 2022-23)**

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### **1. Classroom**

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
<b>Department of Horticulture</b>			
1	Classroom No. 1	80	Sufficient for M.Sc. (Horti.) Floriculture and Landscaping Students
2	Classroom No. 2	40	
3	Seminar Hall	40	

##### **2. Laboratories**



**M.Sc. (Horti.) in Floriculture and Landscaping Students working in laboratories**

**Laboratories**

Laboratory	List of major equipment		Capacity	Remark
Department of Horticulture				
PG Laboratory	1	Slides/ Cover Slips	40	Sufficient for M.Sc. (Horti.) Floriculture and Landscaping Students
	2	Electronic Moisture Meter		
	3	Hygrometer		
	4	Electronic Weighing Balance (1 gm Capacity)		
	5	Pan Balance (1 kg & 10 kg Capacity each )		
	6	Hot Air Oven		
	7	BOD Incubator		
	8	Centrifuge Machine		
	9	Distillation Assembly		
	10	Hand Refractometer		
	11	Digital Refractometer		
	12	Microwave Oven		
	13	Fruit Crusher		
	14	Refrigerator		
	15	Deep Freezer		
	16	Grinding and Mixing Machine		
	17	Pulper		
	18	Fruit Penetrometer		
	19	Chlorophyll Content Meter (SPAD Meter )		
	20	Oven		
	21	Grafting & Budding Knife		
	22	Secateurs		
	23	Pruning Saw		
	24	Loppers		
	25	Water Bath		
	26	Muffle furnace		
	27	Spectrophotometer		
	28	Sieves		
	29	Glass container		
	30	Digital Leaf Area Meter (with digital display)		

**3. Farm facilities**

- ❖ **Total Farm area in hectare : 28.32 ha**
- ❖ **Irrigated Land in hectare : 15.00 ha**

**Instructional Farm and facilities available:**

The department of horticulture has 28.32 ha land and crop cafeteria for M.Sc. (Horti.) Floriculture and Landscaping research work, for conduct of practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes poly houses, green house structures, shade nets, wells, tube wells etc. The most important instruments, equipments available on the college farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available. Composting unit as well as vermin compost units are available to utilize farm waste material which is used for M.Sc. (Horti.) Floriculture and Landscaping research trials conducted on instructional farms.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Floriculture and Landscaping</b>		
<b>28.32 ha</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 wells and 2 bore wells.	<ul style="list-style-type: none"><li>About 2 experiments of M.Sc. (Horti) students are conducted every year, respectively.</li></ul>



**Experiential Learning Programme  
2021-22**



**Nursery Management Training 2021-22**



Students working in field

Department of Horticulture Revenue receipts of the selling of Fruit/Vegetable/ Flowers			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
1	2018-19	0.66	<b>0.66</b>
2	2019-20	0.32	<b>0.32</b>
3	2020-21	0.54	<b>0.54</b>
4	2021-22	0.70	<b>0.70</b>
5	2022-23	0.10	<b>0.10</b>
	<b>Total</b>	<b>2.32</b>	<b>2.32</b>

#### 4. Workshop/Other instructional unit if any give details.

##### ➤ Department of Floriculture and Landscaping

1. One well equipped seminar hall for M.Sc. (Horti.) Floriculture and Landscaping students

#### 5. Theory and practical batches for the degree programme.

M.Sc. (Horti.) Floriculture and Landscaping department average 03 students per year					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

##### • M.Sc. (Horti.) Floriculture and Landscaping Degree Programme

As per the lesson plan, students practical are conducted in a manner to give maximum exposure to the students for increasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students



thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of Floriculture and Landscaping.

### **Hands on training of M.Sc. (Horti.) Floriculture and Landscaping**

Details of courses offered by each department as per BSMA.

Department	Hands of training
<b>Department of Floriculture and Landscaping</b>	
<b>M.Sc. Horticulture (Floriculture and Landscaping) 2022-23</b>	<ul style="list-style-type: none"><li>▪ Different nomenclature systems of plants (2);</li><li>▪ Floral biology and taxonomic description of rose, chrysanthemum, orchids, carnation, gerbera, anthurium, marigold, tuberose, jasmine, China aster, lily, gypsophila</li><li>▪ Floral biology of important ornamental crops</li><li>▪ Cytology and cytogenetics</li><li>▪ Identification of varieties, Propagation</li><li>▪ Identification of species and varieties</li><li>▪ Propagation and nursery management</li><li>▪ Graphic language and symbols in landscaping, study of drawing instruments, viz, “T” square, square, drawing board, etc.</li><li>▪ Identification of important house plants</li><li>▪ Media and containers</li><li>▪ Anatomical studies in rooting of cutting and graft union</li><li>▪ Identification and production of plug plants, seedlings and saplings</li><li>▪ Identification of turf grasses and turf machinery</li><li>▪ Soil preparation, turf establishment methods, provision of drainage</li><li>▪ Practices in preparation of different type of flower arrangements including bouquets, button – holes, flower baskets, corsages, floral wreaths, garlands with fresh flowers</li><li>▪ Study of various protected structures</li><li>▪ Design, layout and erection of different types of structures</li><li>▪ Practices in point methods, Using tool bars and icons, Using modifying tools and modifying comments</li><li>▪ Isometric drawings, Using productivity tools</li><li>▪ Seed production of open pollinated varieties</li><li>▪ Seed production of cross pollinated varieties</li></ul>

**6.4.6 Supervision of students in M.Sc. (Horti.) Floriculture and Landscaping degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Floriculture and Landscaping</b>				
1	2018-19	Dr. G.M. Waghmare	Head	01
2		Dr. T.B. Tambe	Professor	01
3		Dr. Kallabandi	Associate Professor	01
4		Dr. V.N. Shinde	Assistant Professor	01
5		Dr. A.M. Bhosale	Assistant Professor	01
6		Dr. S.V. Dhrutraj	Assistant Professor	01
7		Prof. R.S. Borade	Assistant Professor	01
8		Dr. S.R. Barkule	Assistant Professor	01
1	2019-20	Dr. T.B. Tambe	Professor	03
2		Dr. S.J. Shinde	Associate Professor	02
3		Dr. V.N. Shinde	Assistant Professor	02
4		Dr. A.M. Bhosale	Assistant Professor	01
5		Dr. S.V. Dhrutraj	Assistant Professor	01
6		Dr. S.R. Barkule	Assistant Professor	02
1	2020-21	Dr. A.M. Bhosale	Assistant Professor	02
2		Dr. S.V. Dhrutraj	Assistant Professor	02
3		Dr. S.R. Barkule	Assistant Professor	01
4		Dr. A.S. Lohakare	Assistant Professor	03
5		Dr. V.N. Shinde	Assistant Professor	03
1	2021-22	Dr. G.M. Waghmare	Head	01
2		Dr. S.J. Shinde	Associate Professor	01
3		Dr. B.M.Kallabandi	Associate Professor	01
4		Dr. A.M. Bhosale	Assistant Professor	02
5		Dr. S.V. Dhrutraj	Assistant Professor	01
6		Dr. R.V. Bhalerav	Assistant Professor	01
7		Dr. S.R. Barkule	Assistant Professor	01
8		Dr. A.S. Lohakare	Assistant Professor	01
1	2022-23	Dr. G.M. Waghmare	Head	02
2		Dr. S.J. Shinde	Associate Professor	01
3		Dr. B.M.Kallabandi	Associate Professor	01
4		Dr. S.V. Dhrutraj	Assistant Professor	02
5		Dr. S.R. Barkule	Assistant Professor	02
6		Dr. A.S. Lohakare	Assistant Professor	02
7		Dr. R. V. Bhalerao	Assistant Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of Degree Programme</b>	<b>Intake capacity*</b>	<b>No. of qualified faculty</b>
<b>1</b>	2018-19	M.Sc.(Horti.)Floriculture and Landscaping	2	12
<b>2</b>	2019-20	M.Sc.(Horti.)Floriculture and Landscaping	2	12
<b>3</b>	2020-21	M.Sc.(Horti.)Floriculture and Landscaping	2	12
<b>4</b>	2021-22	M.Sc.(Horti.)Floriculture and Landscaping	2	12
<b>5</b>	2022-23	M.Sc.(Horti.)Floriculture and Landscaping	2	12
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and vending machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the M.Sc. (Horti.) Floriculture and Landscaping students of this department are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. Most of the M.Sc. (Horti.) Floriculture and Landscaping research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region.

According to their feedback the research is being carried out in the following areas at this Department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale.

			Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Horti.) Floriculture and Landscaping	2	2	2	2	2	2	00	00	00	00	00
*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)											

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Horticulture	M.Sc. (Horti.) Floriculture and Landscaping	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app etc.

- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for M.Sc. (Horti.) Floriculture and Landscaping students for assessing research articles, referencing research journals, thesis etc.



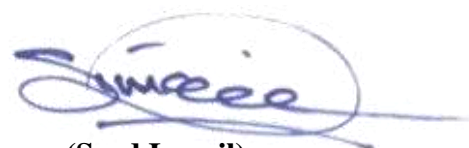
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Horti.) Floriculture and Landscaping students during COVID-19 situations
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for M.Sc. (Horti.) students.
- Conducted online examination for M.Sc. (Horti.) Floriculture and Landscaping students.
- M.Sc. (Horti.) Floriculture and Landscaping, classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr. Syed Ismail**, Dean (Agri.), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



**(Syed Ismail)**  
**Dean (Agri)**

## Appendix-I M.Sc. Students Feedback



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani

### STUDENTS FEEDBACK FORM

1	Name of the Student	Palekar Abhishek Rajendra		
2	Registration No.	2018A24P		
3	Degree and Semester	Ph.D. Horticulture [Floriculture & Land		
4	Name of Department (for M.Sc. & Ph. D. Students)	Horticulture [Floriculture & Landscape Art]		
5	Department Library facilities (for M.Sc. & Ph. D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crops Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student Signature  
 [A.R. Palekar]



VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH  
PARBHANI - 431 402 [MAHARASHTRA]



**Faculty of Horticulture**  
**Department of Floriculture and Landscaping**  
**College of Agriculture, Parbhani**

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## **6.4 Self-study report for the programme Ph.D. (Horti.) in Floriculture and Landscaping**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The College of Agriculture, Parbhani was established in the year 1956. Further Ph.D. (Horti.) in Floriculture and Landscaping degree programme was started in 1970 and Ph.D (Horticulture) in Floriculture and Landscaping degree programme started in the year 2008.

#### **2. Objectives**

1. To educate, train and generate experts in the field of agricultural education and develop human resource.
2. To develop demand driven teaching for Horticulture in general and for the region in particular.
3. To develop agricultural technologies for farmers
4. To carry out need based as well as applied research in horticulture and to transfer horticulture technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the technologies for agro-based small scale industries.

#### **3. Accomplishment**

##### **▪ Teaching:**

Common Entrance Test (CET) is made compulsory for admissions to Ph.D. degree programme for quality education.

During last five years, 5 students successfully completed their degree programme in Ph.D.(Horti.) in Floriculture and Landscaping disciplines. The college has signed MoU with reputed institutes like

Sr. No.	Name of Institute	Subject of MoU	With whom it is signed	Date of signing MoU	Current Status	Outcome of the MoU
1.	ICAR-Directorate of Floricultural Research Pune	For facilitating students training/ post graduate research	<b>Director</b> ICAR-Directorate of Floricultural Research Pune	08.01.2021	Active	Two Ph.D. students doing there research in floriculture

Since academic year 2016-17 cashless transactions are initiated for payment of fees.



**College of Agriculture, VNMKV, Parbhani**



▪ **Research:**

The main mandate of the Department is to impart quality horticulture education; hence the research is mainly carried out through Ph.D. Floriculture and Landscaping students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. students. BOS is the high power body in the field of Education and Research for its policies. More than 5 theses on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All Faculty of the department are actively involved and Head department act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in Shetkari Melava and Farmers group discussion organized by the University and also contributed in Agro Advisory services (Gramin Krishi Mosam Seva) for the farmers.



#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR for 60 intake (college has 139 M.Sc. Agri. intake)	Deviation**
1	2018-19	Head	1	-	-	0
		Professor	1	-	-	0
		Associate Professor	2	1	-	33.33
		Assistant Professor	3	2	-	40
2	2019-20	Head	1	-	-	0
		Professor	-	1	-	100
		Associate Professor	1	2	-	66.66
		Assistant Professor	3	2	-	40
3	2020-21	Head	-	1	-	100
		Professor	1	-	-	0
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
4	2021-22	Head	1	-	-	0
		Professor	1	-	-	0
		Associate Professor	-	3	-	100
		Assistant Professor	3	2	-	40
		Assistant Professor (Adhoc)	5	-	-	0
5	2022-23	Head	1	-	-	0
		Professor	1	-	-	0
		Associate Professor	1	2	-	66.66
		Assistant Professor	2	3	-	60
		Assistant Professor (Adhoc)	3	-	-	0

\* The faculties mentioned above are allotted for B.Sc., M.Sc. & Ph.D. Degree programme

**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	3	5	-	-
2		Supporting including farm and field workers	2	2	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	2	5	-	-
2		Supporting including farm and field workers	1	3	-	-

\* Above Technical / supporting staff are helping B.Sc. (H.), M.Sc. (Horti.) & Ph.D. (Horti.) students for conducting field trials, practicals and demonstrations.

**6.4.4 Class room and Laboratories (2018-19 to 2022-23)**

The department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

**1. Classroom**

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to meet required
<b>Department of Horticulture</b>			
1	Classroom No. 1	80	Sufficient for Ph.D. (Agri.) Floriculture and Landscaping Students
2	Classroom No. 2	40	
3	Seminar Hall	40	

## 2. Laboratories



**Ph.D. (Agri.) Floriculture and Landscaping Students Working in Lab**

### Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Horticulture				
PG Laboratory	1	Slides/ Cover Slips	40	Sufficient for Ph.D. Agri. students
	2	Electronic Moisture Meter		
	3	Hygrometer		
	4	Electronic Weighing Balance (1 gm Capacity)		
	5	Pan Balance (1 kg & 10 kg Capacity each )		
	6	Hot Air Oven		
	7	BOD Incubator		
	8	Centrifuge Machine		
	9	Distillation Assembly		
	10	Hand Refractometer		
	11	Digital Refractometer		
	12	Microwave Oven		
	13	Fruit Crusher		
	14	Refrigerator		
	15	Deep Freezer		
	16	Grinding and Mixing Machine		
	17	Pulper		
	18	Fruit Penetrometer		
	19	Chlorophyll Content Meter (SPAD Meter )		
	20	Oven		
	21	Grafting & Budding Knife		
	22	Secateurs		
	23	Pruning Saw		

	24	Loppers		
	25	Water Bath		
	26	Muffle furnace		
	27	Spectrophotometer		
	28	Sieves		
	29	Glass container		
	30	Digital Leaf Area Meter (with digital display)		

### 3. Farm facilities

❖ **Total Farm area in hectare : 28.32 ha**

❖ **Irrigated Land in hectare : 15.00 ha**

#### **Instructional Farm and facilities available:**

The department has 28.32 ha land and crop cafeteria for Ph.D research work, for conduct of Ph.D.practicals, seed production purpose. The various structures and irrigation facilities required for the purpose are available on the farm which includes poly houses, green house structures, shade nets, wells, tube wells etc. The most important instruments, equipments available on the department farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available. Composting unit as well as vermin compost units are available to utilize farm waste material which is used for Ph.D research trials conducted on instructional farms.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Floriculture and Landscaping</b>		
<b>28.32 ha</b>	Sprinkler, Drip and micro irrigation facilities are made available to the students. The irrigation resources are: 2 wells and 2 bore wells.	<ul style="list-style-type: none"> <li>About 1 experiments of Ph. D. (Horti) Floriculture and Landscaping students are conducted every year, respectively.</li> </ul>

<b>Department of Horticulture Revenue receipts of the selling of Fruit/Vegetable/ Flowers</b>			
Sr. No.	Year	Receipt Received Rs. (Lakh)	Total Receipts
<b>1.</b>	2018-19	0.66	<b>0.66</b>
<b>2</b>	2019-20	0.32	<b>0.32</b>
<b>3</b>	2020-21	0.54	<b>0.54</b>
<b>4</b>	2021-22	0.70	<b>0.70</b>
<b>5</b>	<b>2022-23</b>	<b>0.10</b>	<b>0.10</b>
	Total	2.32	<b>2.32</b>

### 4. Workshop/Other instructional unit if any give details.

**5. Theory and practical batches for the degree programme.**

<b>Ph.D. (Horti.) Average 1 students per year</b>					
<b>Sr. No.</b>	<b>Credit</b>	<b>Group-I</b>		<b>Total</b>	
		<b>Theory Batch</b>	<b>PracticalBatch</b>	<b>Theory Batch</b>	<b>PracticalBatch</b>
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

**6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)****Disciplinewise Ph.D. Course Curriculum:**

The course plan for the Ph.D. (Horti.) Floriculture and Landscaping degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.



Department	Hands on training
Ph.D. (Horticulture) Floriculture and Landscaping	<ul style="list-style-type: none"><li>▪ Plant architecture studies in important flower crops</li><li>▪ Bioassay and isolation through chromatographic analysis for auxins, gibberellins, cytokinins, ABA</li><li>▪ Growth regulation during propagation, dormancy, flowering</li><li>▪ Photoperiod regulation in short day and long day crops</li><li>▪ Improved packaging and storage of important flowers</li><li>▪ Physiological loss in weight of flowers, estimation of transpiration, respiration rate, ethylene release and study of vase life</li><li>▪ Extension in cut flower vase life using chemicals</li><li>▪ Estimation of quality characteristics in stored flowers</li><li>▪ Identification of specialty flowers, fillers and cut greens</li><li>▪ Media and bed preparation for cultivation</li><li>▪ Propagation of important crops</li><li>▪ Integrated disease and pest management in important crops</li><li>▪ Micro propagation, Pollen – Ovule and Embryo culture - Synthetic seed production</li><li>▪ In vitro mutagenesis induction in - vitro rooting – hardening at primary and secondary nurseries</li><li>▪ DNA isolation from economic flower crop varieties – Quantification and amplification</li><li>▪ DNA and protein profiling – molecular markers, PCR Handling</li><li>▪ Identification of plants</li><li>▪ Components of vertical gardens</li><li>▪ Designing of vertical gardens for different locations</li><li>▪ Maintenance of vertical gardens</li><li>▪ In vitro mutagenesis, embryo culture, somaclonal variation</li><li>▪ Somatic hybridization, anther and ovule culture and somatic embryogenesis</li><li>▪ Genetic transformation</li><li>▪ Genetic fingerprinting, Genome editing techniques</li><li>▪ Greenhouse management; Soil decontamination techniques</li><li>▪ Microirrigation; Nutrition and fertigation</li><li>▪ Special practices – bending, netting, pinching, disbudding, defoliation and chemical pruning, etc.</li><li>▪ Photoperiodic and chemical induction of flowering</li><li>▪ Growing structures, basic considerations in establishment and operation of greenhouses</li><li>▪ Environmental control systems in greenhouse</li><li>▪ Containers, substrate culture, soil decontamination techniques crop regulation</li><li>▪ Plant identification</li><li>▪ Materials of garden design, design making by different garden styles and types</li><li>▪ Assessing site and plants adaptability for different locations</li><li>▪ Way of designing a commercial landscape project</li></ul>

**6.4.6 Supervision of students in Ph.D. Horti. degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Horticulture</b>				
1	2018-19	Dr. D.P. Waskar	DOR, VNMKV Parbhani	1
2		Dr. G.M. Waghmare	Head	1
3		Dr. V.S. Khandare	Professor	2
4		Dr. S.J. Shinde	Associate Professor	2
5		Dr. V.N. Shinde	Assistant Professor	1
6		Dr. V.V. Bhagat	Assistant Professor	1
1	2019-20	Dr. T.B. Tambe	Professor	1
2		Dr. V.S. Khandare	Professor	3
3		Dr. S.J. Shinde	Associate Professor	1
4		Dr. A.M. Bhosale	Assistant Professor	2
5		Dr. V.V. Bhagat	Assistant Professor	2
6		Dr. S.R. Barkule	Assistant Professor	1
1	2020-21	Dr. V.S. Khandare	Professor	3
2		Dr. S.J. Shinde	Associate Professor	2
3		Dr. R.V. Bhalerav	Assistant Professor	3
4		Dr. V.V. Bhagat	Assistant Professor	1
5		Prof. R.D. Bagele	Assistant Professor	1
1	2021-22	Dr. G.M. Waghmare	Head	1
2		Dr. V.S. Khandare	Professor	3
3		Dr. S.J. Shinde	Associate Professor	1
4		Dr. B.M.Kallabandi	Associate Professor	1
5		Dr. A.M. Bhosale	Assistant Professor	1
6		Dr. R.V. Bhalerav	Assistant Professor	1
7		Dr. V.V. Bhagat	Assistant Professor	1
8		Dr. S.R. Barkule	Assistant Professor	1
9		Dr. A.S. Lohakare	Assistant Professor	1
1	2022-23	Dr. G.M. Waghmare	Head	1
2		Dr. V.S. Khandare	Professor	3
3		Dr. S.J. Shinde	Associate Professor	1
4		Dr. B.M.Kallabandi	Associate Professor	1
5		Dr. A.M. Bhosale	Assistant Professor	2
6		Dr. R. V. Bhalerao	Assistant Professor	2

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of Degree Programme</b>	<b>Intake capacity*</b>	<b>No. of qualified faculty</b>
<b>1</b>	2018-19	Ph.D.(Hori.) Floriculture and Landscaping	01	12
<b>2</b>	2019-20	Ph.D.(Hori.) Floriculture and Landscaping	01	12
<b>3</b>	2020-21	Ph.D.(Hori.) Floriculture and Landscaping	01	12
<b>4</b>	2021-22	Ph.D.(Hori.) Floriculture and Landscaping	01	12
<b>5</b>	2022-23	Ph.D.(Hori.) Floriculture and Landscaping	01	12
<b>*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the University/College administrations have provided very good facilities like hostel, mess, canteen, R.O. drinking water, sanitary napkin and winding machine facility ladies gym facility, departmental library, sports, gymkhana and placement cell, preparation for competitive examinations, farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the PG students of this college are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this College. Most of the PG research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the

research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with students participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits,	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples,

		group discussions, Board of studies, ZREAC, ARC. and E-surveillance	and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback were submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
<b>Ph.D. (Horti.)</b>	01	01	01	01	01	01	00	00	01 (2.70%)	00	00
*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)											
**Intake of Ph.D. degree from the academic year 2016-17											

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Horticulture	Ph.D. (Hort.) Floriculture and landscaping	Online ICAR E-courses, PPT Presentations and use of internet, smart phone app etc.



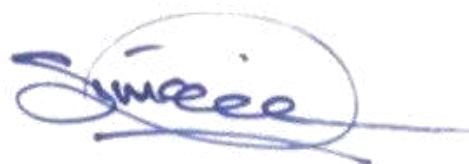
- Development of App-Agro-Tech, VNMKV which includes all recommended technologies of the university.
- Internet facilities available for Ph.D. students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for Ph.D. students.
- Conducted online examination for Ph.D. students.
- Ph.D. classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**6.4.10** The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.

**6.4.11** Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

**6.4.12** Certificate (Applicable when SSR is submitted for programme)


I **Dr. Syed Ismail**, Dean ( Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.



**(Syed Ismail)**  
**Dean (Agri)**


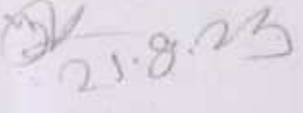
# Appendix-I


## Ph.D. Students Feedback

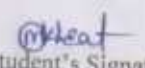

**कृषि महाविद्यालय परभणी**  
**वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी**  
 College of Agriculture, Parbhani  
 Vasanttrao Naik Marathwada Krishi Vidyapeeth, Parbhani

**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Khaat Manisha Ankush		
2	Registration No	2022A/35P		
3	Degree and Semester	II <sup>nd</sup> (Ph.D.)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Horticulture		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied



  
 Student's Signature



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Plant Pathology**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme:- M.Sc. (Agri.) Plant Pathology**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The College of Agriculture, Parbhani was established in the year 1956. M.Sc. (Agri.) programme in Plant Pathology was started in 1970 with intake capacity of six students. In the year 1979 M.Sc.(Agri.) intake capacity was increased to twelve students per year. PG courses were approved by Board of studies, Academic Council and Executive Council of VNMKV, Parbhani for M.Sc.(Agri.) degree programme in Plant Pathology.

#### **2. Objectives**

1. To educate, train and generate experts in the field of agricultural education and develop human resource.
2. To develop demand driven teaching for Agriculture in general and for the region in particular.
3. To develop agricultural technologies for farmers
4. To carry out need based as well as applied research in agriculture and to transfer agricultural technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the technologies for agro-based small scale industries.

#### **3. Accomplishments**

##### **■ Teaching:**

The College of Agriculture, Parbhani was established in the year 1956. M.Sc. (Agri.) degree programme was started in the year 1970. Common Entrance Test (CET) is made compulsory for admissions for M.Sc. (Agri.) degree programme for quality education.

During last five years, 68 students successfully completed their degree programme in M.Sc. (Agri.) in Plant Pathology discipline. During last five years 68 M.Sc. (Agri.) students were placed for Higher education, Govt. Servicess, Banking Servicess, Servicess in corporate sector, won business and farming.



College of Agriculture, VNMKV, Parbhani



Academic staff Department of Palnt Pathology, College of Agriculture, VNMKV, Parbhani

▪ **Research:**

The main mandate of the Department is to impart quality agricultural education; hence the research is mainly carried out through M.Sc. (Agri.) students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the M.Sc. (Agri.) students. BOS is the high power body in the field of Education and Research for its policies. More than 417 theses on various research topics were submitted. Theses submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. During last five years Revenue receipts of the Biomix (A unique innovative Biocontrol agent) Consortia sold to farmers in the region amounting Rs. 16.78 Crores.
2. Contribution of teaching staff in release of following nine (09) varieties / hybrids.
  - State level release of *Kharif* Sorghum variety Parbhani Shakti (PVK 1009) (Joint AGRESKO, 2018)
  - State level release of *Rabi* sorghum variety Parbhani Super Moti (SPV 2407) (Joint Agresco, 2019)
  - State level release of *Rabi* sorghum variety Parbhani Vasant (PVRSG-101) (Joint Agresco, 2021)
3. Contribution of teaching staff in the technological recommendations-07.
4. One Zonal seminar was organized by this department collaboration with Department of Plant Pathology, COA, Latur.





**PG students Laboratory Technique Practical Class.**



**PG student working in Laminar Air Flow Laboratory.**

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All Heads of the departments are actively involved and act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkarimelawa and farmers group discussions organised by the University and also



Dr. V.M. Gholve, guided as Resource Person in State Agriculture Department workshop, Parbhani



Visit of Shri. Ravsaheb Bhagde, Director of General, MCAER, Pune to Plant Pathology exhibition stall at Sillod Krishi Mahostav.

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	01	00	-	00
		Professor	00	01	-	100
		Associate Professor	03	02	-	40
		Assistant Professor	02	02	-	50
2	2019-20	Head	01	00	-	00
		Professor	01	00	-	50
		Associate Professor	02	03	-	40
		Assistant Professor	03	01	-	25
3	2020-21	Head	01	00	-	00
		Professor	01	00	-	00
		Associate Professor	02	03	-	60
		Assistant Professor	03	01	-	25
4	2021-22	Head	01	00	-	00
		Professor	01	00	-	00
		Associate Professor	02	03	-	60
		Assistant Professor	04	04	-	100
5	2022-23	Head	00	01	-	100
		Professor	01	00	-	00
		Associate Professor	03	02	-	40
		Assistant Professor	00	04	-	100

\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme

### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	02	-	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	01	-	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	01	-	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	02	-	-	-
2		Supporting including farm and field workers	01	-	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	02	-	-	-
2		Supporting including farm and field workers	01	-	-	-

**\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.**

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
Department of Plant Pathology			
1	Classroom No. 1	40	Sufficient for M.Sc. (Agri.) Students



Smart Seminar Hall for M.Sc.(Agri.) Students

##### 2. Laboratories



M.Sc. (Agri.) Student Working in PG Laboratory



### Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Plant Pathology				
PG Laboratory-1	1	Laminar Air Flow,	40	Sufficient for M.Sc. (Agri.) Students
	2	Hot air oven,		
	3	BOD Incubator,		
	4	pH meter,		
	5	Refrigerator,		
	6	PCR,		
	7	ELISA- washer		
	8	ELISA reader		
	9	ELISA printer		
	10	Gel Electrophoresis unit,		
	11	Double Beam UV Spectrophotometer,		
	12	Refrigerated Centrifuge (24,000 rpm),		
	13	pH meter,		
	14	Ice flecking machine,		
	15	Microwave oven		
	16	Deep Freezer		

### 3. Farm facilities

- ❖ **Total Farm area in hectare : 1 ha**
- ❖ **Irrigated Land in hectare : 1 ha**

#### Research Farm and facilities available:

The department has 1ha land for field research purpose. Some students are also conduct their research work on farms of different research stations situated at Parbhani. The various structures and irrigation facilities required for the purpose are available on the farm which includes screen house shade nets structures, tube well etc. Drip irrigation and sprinkler irrigation facilities are also available.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Plant Pathology</b>		
<b>1.0 ha.</b>	Drip irrigation facilities is made available to the students. The irrigation resources are: 01 bore well.	<ul style="list-style-type: none"> <li>About 04 experiments of M.Sc. (Agri.) students are conducted every year respectively for the <i>kharif</i>, <i>Rabi</i> and summer seasons.</li> </ul>

<b>Department of Plant Pathology Revenue receipts of the Bio mix Consortia and PEQ</b>				
Sr. No.	Year	Receipt Received Rs. (Lakh)		Total Receipts (Rs.Lakh)
		Bio Mix	PEQ	
1	2018-19	141.42	07.80	149.22

2	2019-20	192.06	09.90	201.96
3	2020-21	293.66	12.90	306.56
4	2021-22	416.92	186.00	602.92
5	2022-23	257.99	160.00	417.99
		<b>Total</b>		<b>1678.65</b>

4. Workshop/Other instructional unit if any give details.

5. Theory and practical batches for the degree programme.

M.Sc. (Agri.) Average 12 students per department					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
1	2 (1+1)	01	01	01	01
2	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

- **M.Sc. (Agri.) Programme**

As per the lesson plan, students practicalare conducted in a manner to give maximum exposure to the students forincreasing the ability and skills.

The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- In selecting major, minor courses, supporting courses and NCCC.
- Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

Department	Hands of training
<b>Department of Plant Pathology</b>	
<b>M.Sc. (Agri.) Plant Pathology 2018-19 to 2022-23</b>	<ul style="list-style-type: none"> <li>Isolation and characterization of different fungi.</li> <li>Symptoms of plant viral diseases, mechanism of transmission of virus.</li> <li>Isolation and characterization of different bacteria</li> <li>Principles of plant disease management.</li> <li>Isolation, purification and maintenance of different microbes.</li> <li>Methods of plant disease management and their application in agriculture.</li> <li>Seed Testing methods and isolation, identification of seed borne fungi.</li> <li>Staining and identification of different bacteria.</li> <li>Disease survey of agroclimatic zones.</li> <li><i>In vitro</i> evaluation of different fungicides, bioagents, phytoextracts, essential oils &amp; chemicals.</li> <li><i>In vivo</i> evaluation of different fungicides, bioagents, phytoextracts, essential oils &amp; chemicals.</li> <li>Research analysis, Stage courage and presentation skills</li> </ul>

Department	Hands of training
<b>Department of Plant Pathology</b>	
<b>M.Sc. (Agri.) Plant Pathology 2022-23 BSMA* Alloted to 2022 Batch</b>	<ul style="list-style-type: none"> <li>Isolation and characterization of different fungi.</li> <li>Symptoms of plant viral diseases, mechanism of transmission of virus.</li> <li>Isolation and characterization of different bacteria</li> <li>Principles of plant disease management.</li> <li>Isolation, purification and maintenance of different microbes.</li> <li>Methods of plant disease management and their application in agriculture.</li> <li>Seed Testing methods and isolation, identification of seed borne fungi.</li> <li>Staining and identification of different bacteria.</li> <li>Disease survey of agroclimatic zones.</li> <li><i>In vitro</i> evaluation of different fungicides, bioagents, phytoextracts, essential oils &amp; chemicals.</li> <li><i>In vivo</i> evaluation of different fungicides, bioagents, phytoextracts, essential oils &amp; chemicals.</li> <li>Research analysis, Stage courage and presentation skills</li> </ul>

#### 6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Dept. of Plant Pathology</b>				
1	2018-19	Dr. D.N. Dhutraj	Head	01
2		Dr. K.T. Apet	Associate Professor	01
3		Dr.S.L.Badgular	Associate Professor	01
4		Dr.K.D.Navgire	Associate Professor	01
5		Dr.V.M.Gholve	Associate Professor	02
6		Dr.M.S.Dadke	Associate Professor	01
7		Dr.A.T.Daunde	Assistant Professor	01
8		Dr.M.G.Patil	Assistant Professor	01
9		Dr.C.V.Ambadkar	Assistant Professor	02
10		Mr.O.S.Thakur	Assistant Professor	01

1	2019-20	Dr. D.N. Dhutraj	ADI	01
2		Dr. K.T. Apet	Professor & Head	02
3		Dr.S.L.Badgujar	Associate Professor	02
4		Dr.K.D.Navgire	Associate Professor	02
5		Dr.V.M.Gholve	Associate Professor	01
6		Dr.M.S.Dadke	Associate Professor	01
7		Dr.C.V.Ambadkar	Assistant Professor	02
8		Dr.A.T.Daunde	Assistant Professor	02
9		Dr.M.G.Patil	Assistant Professor	01
1	2020-21	Dr. K.T. Apet	Professor & Head	02
2		Dr.K.D.Navgire	Associate Professor	01
3		Dr.V.M.Gholve	Associate Professor	02
4		Dr.M.S.Dadke	Associate Professor	02
5		Dr.C.V.Ambadkar	Assistant Professor	02
6		Dr.A.T.Daunde	Assistant Professor	02
7		Dr.M.G.Patil	Assistant Professor	02
8		Dr.P.K.Dhoke	Assistant Professor	01
1	2021-22	Dr. K.T. Apet	Professor & Head	02
2		Dr.G.P.Jagtap	Associate Professor	01
3		Dr.V.M.Gholve	Associate Professor	02
4		Dr.M.S.Dadke	Associate Professor	02
5		Dr.C.V.Ambadkar	Assistant Professor	03
6		Dr.A.T.Daunde	Assistant Professor	02
7		Dr.M.G.Patil	Assistant Professor	02
1	2022-23	Dr.S.L.Badgujar	Associate Professor& Head	01
2		Dr.G.P.Jagtap	Associate Professor	01
3		Dr.V.M.Gholve	Associate Professor	03
4		Dr.M.S.Dadke	Associate Professor	02
5		Dr.C.V.Ambadkar	Assistant Professor	03
6		Dr.A.T.Daunde	Assistant Professor	02
7		Dr.M.G.Patil	Assistant Professor	02
8		Dr.P.K.Dhoke	Assistant Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	M.Sc.(Agri.)	12	10
2	2019-20	M.Sc.(Agri.)	13	09
3	2020-21	M.Sc.(Agri.)	14	08
4	2021-22	M.Sc.(Agri.)	14	07
5	2022-23	M.Sc.(Agri.)	15	08

**\*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and**

**above the sanctioned intake capacity)**

#### **6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the department have provided very good facilities like departmental library, well equipped laboratories & research farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the M.Sc. (Agri.) students of this college are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.



(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of applications of fungicides and bioagents. Advised to use recommended doses of fungicides. Liquid and solid bio agents are available to farmers for sale. Feedback was submitted in research review at university level.
		Farmers rally during <i>Kharif</i> and <i>Rabi</i> season	Farmers are advised on <i>Kharif</i> and <i>Rabi</i> crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	140	12	13	14	14	15	--	---	--	--	--

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Plant Pathology	M.Sc.(Agri.)	Online ICAR E-courses, PPT Presentations on LCD projector and use of internet, interactive board , smart phone app, Google classroom etc.

- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.
- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

#### Android apps

- Sorghum cultivation technology

#### Other digital media used

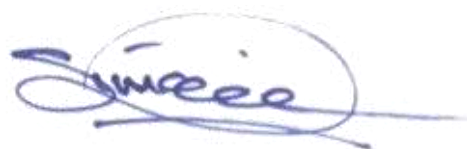
- Google Classroom, Zoom meet, WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11** Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.


**6.4.12 Certificate (Applicable when SSR is submitted for programme)**

I **Dr.Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri)**

## Appendix-I M.Sc. Students Feedback




कृषि महाविद्यालय परभणी  
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College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



### STUDENTS' FEEDBACK FORM

1	Name of the Student	KAVYA R S		
2	Registration No	2022A / 120M		
3	Degree and Semester	M.Sc. II Semester		
4	Name of Department (for M.Sc. & Ph.D. Students)	PLANT PATHOLOGY		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



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Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani




STUDENTS' FEEDBACK FORM

1	Name of the Student	Labade Rutuja Dnyandev.		
2	Registration No	2022 A190 M.		
3	Degree and Semester	MSc. Agrn. (II sem).		
4	Name of Department (for M.Sc. & Ph.D. Students)	Plant Pathology.		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied


*Rutuja*

Student's Signature





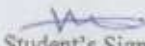
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वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



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**STUDENTS' FEEDBACK FORM**

1	Name of the Student	Veejesh P		
2	Registration No	2022A/123M		
3	Degree and Semester	M.Sc. (Agri) II <sup>nd</sup> Sem.		
4	Name of Department (for M.Sc. & Ph.D. Students)	Plant Pathology.		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Plant Pathology**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme Ph.D. (Agri.) Plant Pathology**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The College of Agriculture, Parbhani was established in the year 1956. Further Ph.D. (Agri.) degree programme was started in 1978. Ph.D. (Agri.) courses were approved by Board of studies, Academic Council and Executive Council of VNMKV, Parbhani for Ph.D. (Agri.) degree programme in Plant Pathology.

#### **2. Objectives**

1. To educate, train and generate experts in the field of agricultural education and develop human resource.
2. To develop demand driven teaching for Agriculture in general and for the region in particular.
3. To develop agricultural technologies for farmers
4. To carry out need based as well as applied research in agriculture and to transfer agricultural technologies developed by the university to the farmers of the region.
5. To provide solutions to the problems of farming community.
6. To develop the technologies for agro-based small scale industries.

#### **3. Accomplishment**

##### **■ Teaching:**

The College of Agriculture, Parbhani was established in the year 1956. Ph.D. degree programme was started in the year 1978. Common Entrance Test (CET) is made compulsory for admissions to Ph.D. degree programme for quality education.

During last five years, 17 students successfully completed their degree programme in Ph.D.(Agri.) in Plant Pathology discipline. The college has signed MoU with reputed institutes like ICRISAT Hyderabad, BARC Mumbai, CICR Nagpur and NIPHM Hyderabad for giving exposure to students for their research on advanced topics. During last five years 17 Ph.D. students were placed for respectively for Govt. Services, Banking Services, Services in corporate sector, won business and farming.



College of Agriculture, VNMKV, Parbhani



Academic Staff, Department of Plant Pathology, College of Agriculture, VNMKV, Parbhani

▪ **Research:**

The main mandate of the department is to impart quality agricultural education; hence the research is mainly carried out through Ph.D. students. Faculty members are submitting their research in AGRESKO meetings. Annually two meetings of Board of studies are conducted at department level for deciding the policies of research in the department and research topics of the Ph.D. students. BOS is the high power body in the field of Education and Research for its policies. More than 75 thesis on various research topics were submitted. Thesis submitted by the student's act as a basic and applied information resource to the various need based research issues. The research projects presented by faculty members are discussed at length in the RRC meeting of the University and finalized research projects are forwarded for JOINT AGRESKO conducted by four SAU's. After discussion in JOINT AGRESKO fruitful recommendations are drawn which are applicable to the farmers and policy makers.

1. During last five years Revenue receipts through Post Entry Quarantine authority and the Biomix (A unique innovative Biocontrol agent) Consortia sold to farmers in the region amounting Rs. 16.78 Crore.
2. Contribution of teaching staff in release of following nine (09) varieties / hybrids.
  - State level release of *Khariif* Sorghum variety Parbhani Shakti (PVK 1009)(Joint AGRESKO, 2018)
  - State level release of *Rabi* sorghum variety Parbhani Super Moti (SPV 2407) (Joint Agresco, 2019)
  - State level release of *Rabi* sorghum variety Parbhani Vasant (PVRSG-101) (Joint Agresco, 2021)
3. Contribution of teaching staff in the technological recommendations-07.
4. One Zonal seminar was organized by this department collaboration with Department of Plant Pathology, COA, Latur.





**Ph.D. Students learning in classroom**

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All Heads of the departments are actively involved and act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin krishimosam seva) for the farmers.



#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Head	01	00	-	00
		Professor	00	01	-	100
		Associate Professor	03	02	-	40
		Assistant Professor	02	02	-	50
2	2019-20	Head	01	00	-	00
		Professor	01	00	-	50
		Associate Professor	02	03	-	40
		Assistant Professor	03	01	-	25
3	2020-21	Head	01	00	-	00
		Professor	01	00	-	00
		Associate Professor	02	03	-	60
		Assistant Professor	03	01	-	25
4	2021-22	Head	01	00	-	00
		Professor	01	00	-	00
		Associate Professor	02	03	-	60
		Assistant Professor	04	04	-	100
5	2022-23	Head	00	01	-	100
		Professor	01	00	-	00
		Associate Professor	03	02	-	40
		Assistant Professor	00	04	-	100

\* The faculties mentioned above are allotted for B.Sc., M.Sc. & Ph.D. Degree programme

**6.4.3 Technical and Supporting staff (2018-19 to 2022-23)**

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

Sr. No.	Year	Sanctioned staff*	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	02	-	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	01	-	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	01	-	-	-
2		Supporting including farm and field workers	01	-	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	02	-	-	-
2		Supporting including farm and field workers	01	-	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	02	-	-	-
2		Supporting including farm and field workers	01	-	-	-

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Sr. No.	Classroom No.	Capacity	Justify if it is sufficient to the meet required
Department of Plant Pathology			
1	Classroom No. 2	40	Sufficient for Ph.D. (Agri.) Students



Smart Seminar Hall for Ph.D. Students

## 2. Laboratories



**Ph.D. (Agri.) Students Working in Lab**

### Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Plant Pathology				
PG Laboratory-2	1	Laminar Air Flow,	15	Sufficient for Ph.D. (Agri.) Students
	2	Hot air oven,		
	3	BOD Incubator,		
	4	pH meter,		
	5	Refrigerator,		
	6	PCR,		
	7	ELISA- washer,		
	8	ELISA-printer,		
	9	Gel Electrophoresis unit,		
	10	Double Beam UV Spectrophotometer,		
	11	Refrigerated Centrifuge (24,000 rpm),		
	12	pH meter,		
	13	Ice flecking machine,		
	14	Microwave oven		
	15	Deep Freezer		

### 3. Farm facilities

- ❖ Total Farm area in hectare : 1 ha
- ❖ Irrigated Land in hectare : 1 ha

#### Research Farm and facilities available:

The department has 1ha land for field research purpose. Some students are also conduct their research work on farms of different research stations situated at Parbhani. The various structures and irrigation facilities required for the purpose are available on the farm which includes screen house shade nets structures, tube well etc. Drip irrigation and sprinkler irrigation facilities are also available.

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Plant Pathology</b>		
<b>1.0 ha.</b>	Drip irrigation facilities is made available to the students. The irrigation resources are: 01 bore well.	<ul style="list-style-type: none"> <li>About 04 experiments of M.Sc. (Agri.) students are conducted every year respectively for the <i>kharif</i>, <i>Rabi</i> and summer seasons.</li> </ul>

<b>Department of Plant Pathology Revenue receipts of the Bio mix Consortia and PEQ</b>				
Sr. No.	Year	Receipt Received Rs.		Total Receipts
		Bio Mix	PEQ	
<b>1</b>	2018-19	141.42	07.80	149.22
<b>2</b>	2019-20	192.06	09.90	201.96
<b>3</b>	2020-21	293.66	12.90	306.56
<b>4</b>	2021-22	416.92	186.00	602.92
<b>5</b>	2022-23	257.99	160.00	417.99
		<b>Total</b>		<b>1678.65</b>

#### 4. Workshop/Other instructional unit if any give details.

#### 5. Theory and practical batches for the degree programme.

<b>Ph.D. (Agri.) Average 3 students per department</b>					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	Practical Batch	Theory Batch	Practical Batch
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

#### Discipline wise Ph.D. Course Curriculum:



The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 45 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

Department	Hands of training
<b>Department of Plant Pathology</b>	
<b>Ph.D. (Agri.) Plant Pathology 2018-19 to 2022-23</b>	<ul style="list-style-type: none"><li>▪ Isolation and characterization of different fungi.</li><li>▪ Symptoms of plant viral diseases, mechanism of transmission of virus.</li><li>▪ Isolation and characterization of different bacteria</li><li>▪ Principles of plant disease management.</li><li>▪ Isolation, purification and maintenance of different microbes.</li><li>▪ Methods of plant disease management and their application in agriculture.</li><li>▪ Seed Testing methods and isolation, identification of seed borne fungi.</li><li>▪ Staining and identification of different bacteria.</li><li>▪ Disease survey of agroclimatic zones.</li><li>▪ <i>In vitro</i> evaluation of different fungicides, bioagents, phytoextracts, essentials oils &amp; chemicals.</li><li>▪ <i>In vivo</i> evaluation of different fungicides, bioagents, phytoextracts, essentials oils &amp; chemicals.</li><li>▪ Research analysis, Stage courage and presentation skills</li></ul>

Department	Hands of training
<b>Department of Plant Pathology</b>	
<b>Ph.D. (Agri.) Plant Pathology 2022-23 BSMA* Alloted to 2022 Batch</b>	<ul style="list-style-type: none"><li>▪ Isolation and characterization of different fungi.</li><li>▪ Symptoms of plant viral diseases, mechanism of transmission of virus.</li><li>▪ Isolation and characterization of different bacteria</li><li>▪ Principles of plant disease management.</li><li>▪ Isolation, purification and maintenance of different microbes.</li><li>▪ Methods of plant disease management and their application in agriculture.</li><li>▪ Seed Testing methods and isolation, identification of seed borne fungi.</li><li>▪ Staining and identification of different bacteria.</li><li>▪ Disease survey of agroclimatic zones.</li><li>▪ <i>In vitro</i> evaluation of different fungicides, bioagents, phytoextracts, essentials oils &amp; chemicals.</li><li>▪ <i>In vivo</i> evaluation of different fungicides, bioagents, phytoextracts, essentials oils &amp; chemicals.</li><li>▪ Research analysis, Stage courage and presentation skills</li></ul>

**6.4.6 Supervision of students in Ph.D. Agri. degree programmes (2018-19 to 2022-23)**

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
1	2018-19	Dr. D.N. Dhutraj	Head	01
2		Dr. K.T. Apet	Associate Professor	01
3		Dr.V.M.Gholve	Associate Professor	01
1	2019-20	Dr. K.D.Navgire	Associate Professor	01
2		Dr.V.M.Gholve	Associate Professor	01
3		Dr. K.T. Apet	Professor	01
1	2020-21	Dr.A.P.Suryawanshi	Professor	01
2		Dr.P.H.Ghante	Associate Professor	01
3		Dr.D.G.Hingole	Associate Professor	01
4		Dr.K.T.Apet	Professor	01
1	2021-22	Dr. K.T. Apet	Professor	01
2		Dr. V.M.Gholve	Associate Professor	02
1	2022-23	Dr.G.P.Jagtap	Associate Professor	01
2		Dr.D.G.Hingole	Associate Professor	01
3		Dr. V.M.Gholve	Associate Professor	01
4		Dr.P.H.Ghante	Associate Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	Ph.D.(Agri.)	03	03
2	2019-20	Ph.D.(Agri.)	03	03
3	2020-21	Ph.D.(Agri.)	04	05
4	2021-22	Ph.D.(Agri.)	03	03
5	2022-23	Ph.D.(Agri.)	04	04
*30% seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. The satisfactory remarks are given by them. According to their feedback, the department have provided very good

facilities like departmental library, well equipped laboratories & research farm. They are also satisfied with the facilities of this institute, smart classrooms and well equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this college.

Most of the Ph.D. (Agri.) students of this college are employed in banking sector, private agricultural colleges, seed, fertilizer and pesticide companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this department. Most of the Ph.D. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.

3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of applications of fungicides and bioagents. Advised to use recommended doses of fungicides. Liquid and solid bio agents are available to farmers for sale. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during <i>Kharif</i> and <i>Rabi</i> season	Farmers are advised on <i>Kharif</i> and <i>Rabi</i> crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
Ph.D. (Agri.)	04	03	03	04	03	04		01 (33.67%)	0	0	0

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Plant Pathology	M.Sc.(Agri.)	Online ICAR E-courses, PPT Presentations on LCD projector and use of internet, interactive board , smart phone app, Google classroom etc.

- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.

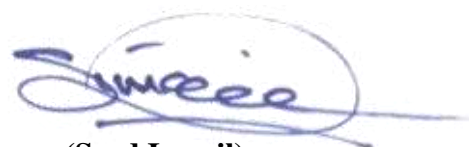
- Interactive board available in the lab
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available
- Online lectures are arranged for Ph.D. (Agri.) students during COVID-19 situations
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for Ph.D. (Agri.) students.
- Ph.D. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**


I **Dr. Syed Ismail**, Dean (Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri)**



## Appendix-I Ph.D. Students Feedback



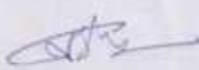
कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



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### STUDENTS' FEEDBACK FORM

1	Name of the Student	Bhosale Utpinath Vinayakrao		
2	Registration No	2021A/21P		
3	Degree and Semester	Ph.D. (IV) sem.		
4	Name of Department (for M.Sc. & Ph.D. Students)	plant pathology.		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature




कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Sakhare Shivaji Sakharam		
2	Registration No	2022A/27P		
3	Degree and Semester	Ph.D II <sup>nd</sup> sem.		
4	Name of Department (for M.Sc. & Ph.D. Students)	Plant Pathology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Student's Signature

कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantryao Naik Marathwada Krishi Vidyapeeth, Parbhani



STUDENTS' FEEDBACK FORM

1	Name of the Student	Bansode Mahesh pusarram		
2	Registration No	2022A/24P		
3	Degree and Semester	PhD (Second Semester)		
4	Name of Department (for M.Sc. & Ph.D. Students)	Plant Pathology		
5	Departmental Library facilities (for M.Sc. & Ph.D. Students)	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
Student's Signature



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Soil Science & Agricultural Chemistry**  
**College of Agriculture, Parbhani**  
PARBHANI - 431 402 [MAHARASHTRA]



## **6.4 Self-study report for the programme: - M.Sc. (Agri.)**

### **Department of Soil Science & Agricultural Chemistry**

#### **6.4.1 Brief history of degree programme**

The Department of Soil Science and Agricultural Chemistry came into existence in 1956 with the establishment of College of Agriculture. In early days of its inception, the department catered the need of under graduate teaching besides some preliminary soil and plant research. However, with the introduction of post graduate education in 1970, research activities extended cutting across the different sub disciplines with major emphasis on soil fertility and plant nutrition with subsequent strengthening of infrastructure facilities for undergraduate and post graduate teaching.

##### **1. Year of start**

The Department of Soil Science and Agricultural Chemistry came into existence in 1956 with the establishment of College of Agriculture Parbhani. The introduction of post graduate education in 1970.

##### **Objectives**

Department of Soil Science and Agricultural Chemistry is charged with following responsibilities

1. To impart under graduate and post graduate instructions.
2. To undertake post graduate students research and train the young scientists in agriculture research.
3. To carry out basic and strategic research on soil and in priority areas for overall development of agricultural research in the Marathwada region.
4. To provide technical guidance to the farming community on soil health and water management for sustainable agricultural production.

## **2. Accomplishments**

### **▪ Teaching:**

The Head is an overall in-charge of the department and responsible for planning, guiding, monitoring and executing activities pertaining to teaching, research and extension education. The professor is entrusted with the responsibility of supervision of teaching and examination work in the department. Postgraduate teaching and research are fully integrated in this department with the help of academic staff of the faculty. The teaching programme of the department includes courses of mainly agriculture, horticulture, Agril. engineering, community science and faculty for B.Sc. (Agri), M.Sc. and Ph.D. in soil science. The instructional programme is restructured on ICAR pattern. The department has accommodated 12 credits of Soil Science and Agricultural Chemistry for Agriculture graduation in old syllabus and new syllabus implemented from 2017 with 11 credits. The credit load for master degree program as per old syllabus major and supporting 25 and new new syllabus major and supporting courses 23 credits and Research 30 credits and Ph.D. degree program as per old syllabus major and supporting 17 and new syllabus major and supporting courses 19 credits and research 75 credits.

### **▪ Research:**

Research is an integral component of the education system. The proposed research projects are reviewed, discussed, modified and implemented considering need based priorities and thrust areas for Maharashtra region. The department of Soil Science and Agricultural Chemistry is engaged in soil, crop and fertilizer research over four decades. In addition to two ICAR projects (AICRP on Soil Biodiversity and Biofertilizers and AICRP on Long Term Fertilizer experiment), Eight product testing project on cotton, soybean and wheat crop of Smart Tech Pvt. Ltd. Pune, Manson Crop Science Nasik, RCF Mumbai, Agro Chemical Pvt. Ltd. Pune amounting 12.00 Lakhs. Two Adhoc project, one is chief minister funded adhoc project amount Rs. 2.7 cr. on “Automation in soil testing project laboratory and development of decision support system for sustainable agriculture of marathwada region of Maharashtra”. 2<sup>nd</sup> adhoc project on Nano Fertilizers funded by IFFCO amount Rs. 25 Lakhs. During last five years revenue receipts generated from soil testing, soil testing training, biofertilizers and vermicomposting of the amounting Rs. 88.59 Lakhs.

1. More than three thousand Soil Health cards were distributed to the farmers.
2. Two trainings were organized on soil, water and plant analysis





**PG students working in Laboratory.**

**Year-2018**

1. Seed treatment of liquid zinc solubilizer *Pseudomona striata* @ 100 ml /10 kg seed + application of  $\text{ZnSO}_4$   $30 \text{ kg ha}^{-1}$  is recommended to soybean along with recommended dose of fertilizers ( $30:60:30 \text{ NPK kg ha}^{-1}$ ) for enhancement of soybean seed yield, monetary return and improvement in soil properties,
2. It is recommended that cattle of Parbhani district of Marathwada region need to be supplemented with copper, manganese and zinc by formulating area specific mineral mixture using highly bio-available mineral salt to meet the nutrient deficiency of Zn, Cu and Mn which were found deficient in soil, fodder and serum of this region.

**Year-2019**

1. It is recommended that very shallow soils (20-25 cm), silty clay loam, underlined by medium hard to hard murum layer soils (Entisols) are to be selected for higher production of custard apple.

**Year-2020**

1. In Inceptisols of Marathwada region, in order to obtain maximum yields, monetary return from kharif soybean and for the improvement in soil properties application of recommended dose of fertilizer i.e.  $30: 60:30 \text{ kg N,P}_2\text{O}_5 \text{ and K}_2\text{O}$  along with tank silt @  $5 \text{ t ha}^{-1}$  + FYM @  $2.5 \text{ t ha}^{-1}$  or tank silt @  $10 \text{ t ha}^{-1}$  with RDF is recommended.

**Year-2021**

1. The enhancement of drought tolerance, yield, monetary return and improvement in soil properties under wheat, seed treatment of liquid *Bacillus licheniformis* @ 100ml / 10 kg seed was found as promising for drought tolerance along with recommended dose of fertilizers and is recommended to rainfed wheat.

2. Soil Contain  $\text{CaCO}_3$  less than 15 per cent very deep soil Vertisols (Typic Haplusters) followed by Moderately deep soil Inceptions (Typic Haplusters) select for higher production of Tamarind in Marathwada region Maharashtra. If the calcium carbonates greater than 15 per cent (15 to 25 %), application of FYM and protective irrigation for higher yield of tamarind.
3. For the enhancement of pigeon pea yield, monetary returns and improvement in soil properties, seed treatment of liquid *Pseudomonas striata* as zinc solubilizer @ 100 ml/10 kg seed + application of 30 kg  $\text{ZnSO}_4$   $\text{ha}^{-1}$  is recommended to pigeon pea along with recommended dose of fertilizers.
4. In Vertisol of Marathwada region, to get maximum yield and monetary returns of pigeon pea, application of  $\text{K}_2\text{O}$  and micronutrient grade-I @ 25 kg  $\text{ha}^{-1}$  or micronutrient grade-II @ 0.5% at flowering stage is recommended in addition with recommended dose of fertilizer (i.e. 25:50 N and  $\text{P}_2\text{O}_5$  kg  $\text{ha}^{-1}$ ).

#### Year-2022

1. Select the soybean variety MAUS-162 and MAUS-71 for early and higher germination of soybean under low rainfall i.e. 75 per cent field capacity soil moisture and other varieties MAUS-158, JS-335 to be sown at 100 per cent field capacity soil moisture in soils of Marathwada region

#### Year-2023

1. For biofortification of iron and zinc in seed and straw of wheat and enhancement of soil properties particularly iron and zinc, yield, quality and monetary returns, seed treatment of liquid *Pseudomonas striata* as iron and zinc solubilizer @ 100 ml/10 kg seed along with recommended dose of fertilizer is recommended.
2. For the enhancement of tomato growth, yield, quality, improvement in soil properties and monetary returns, the application recommended dose of fertilizers along with Beejamruth (seedling root treatment), Jeevamruth (soil application @ 500 litre  $\text{ha}^{-1}$ ) and Panchagavya (foliar spray @ 3% at 15, 30, 45, 60, 75 and 90 DAT) is recommended.

#### ■ Extension education:

The department has undertaken regular extension activities through T&V, workshops, farmers rally, participation in farm advisory work through All India Radio, TV, Exhibition and telephonic help line of the university for problem oriented specific query of farmers. Besides this department is also regularly organizing training programmes for extension personnel of State department of Agriculture, farmers self, employment groups school and college drop outs on different thematic topics.



**Capacity building training on “Soil and Fertilizer use” during 13-17 Nov., 2018**



**Celebration of World Soil Day 5<sup>th</sup> December, 2022**

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
<b>Department of Soil Science &amp; Agricultural Chemistry</b>						
1	2018-19	Head	01	00	--	100
2		Professor	01	01	--	100
3		Associate Professor	04	02	--	50
4		Assistant Professor	08	05	--	63
1	2019-20	Head	01	01	--	100
2		Professor	01	01	--	100
3		Associate Professor	04	02	--	50
4		Assistant Professor	08	05	--	63
1	2020-21	Head	01	01	--	100
2		Professor	01	01	--	100
3		Associate Professor	04	02	--	50
4		Assistant Professor	08	05	--	63
1	2021-22	Head	01	01	--	100
2		Professor	01	01	--	100
3		Associate Professor	04	02	--	50
4		Assistant Professor	08	04	--	50
1	2022-23	Head	01	00	--	00
2		Professor	01	01	--	100
3		Associate Professor	04	01	--	25
4		Assistant Professor	08	06	--	75

\* The faculties mentioned above are allotted for B.Sc (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) Degree programme

### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown in following table.

#### Details of Technical and Supporting Staff

Sr. No.	Year	Sanctioned staff*	Sanctioned staff	Staff in place	Vacant position	Faculty recommended by the ICAR	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	04	03	-	-	-
2		Supporting including farm and field workers		03	-	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	04	04	-	-	-
2		Supporting including farm and field workers		03	-	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	04	04	-	-	-
2		Supporting including farm and field workers		03	-	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	04	03	-	-	-
2		Supporting including farm and field workers		02	-	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	04	02	-	-	-
2		Supporting including farm and field workers		02	-	-	-

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.



#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The college has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Department of Soil Science & Agril. Chemistry			
Sr. No	Classroom No.	Capacity	Justify if it is sufficient to the meet required
1	Classroom No. 1	40	Sufficient for M.Sc. (Agri.) Students

##### 2. Laboratories



**M.Sc. (Agri.) Students Working in Labortary**

Laboratories

Laboratory	List of major equipment		Capacity	Remark
Department of Soil Science				
LTFE Lab	1	pH Meter	32	Sufficient for M.Sc. (Agri.) Students
	2	EC Meter		
	3	Flame photometer		
	4	Spectrophotometer		
	5	Hot air oven		
	6	Distillation Unit		
	7	Shakers		
	8	Soxhlet’s Apparatus		
Bio fertilizer Lab	1	Autoclave		Sufficient for M.Sc. (Agri.) Students
	2	Laminar Flow		
	3	Horizontal Shaker		
	4	Spectrophotometer		
CIC-I	1	Atomic Absorption Spectrophotometer		Sufficient for M.Sc. (Agri.) Students
	2	TOC-L		
	3	Double beam UV- Spectrophotometer		
	4	Flame Photometer		
	5	N-Analyzer with Digestion block		
	6	Microwave digestion extraction system		
	7	pH meter		
	8	EC meter		
	9	Mechanical Shaker		
	10	Leaf Area Meter		
	11	Hot air oven		
	12	Muffle Furnace		
	13	Centrifuge Machine		
	14	Double Distillation Unit		
	15	Weighing Balance		
	16	Remi Orbital Shaker Incubator		
PG Lab	1	Double beam UV- Spectrophotometer	13	
	2	Flame Photometer		
	3	N-Analyzer with Digestion block		
	4	Colony counter		
	5	pH meter		
	6	EC meter		
	7	Horizontal Shaker		
	8	Double Distillation Unit		
	9	Slide Warming Table plate		
	10	stirrer		
Soil Physics Lab	1	Yodders Seive shaker	13	Sufficient for M.Sc. (Agri.) Students
	2	Suction Pump		
	3	Dry sieve shaker		
	4	Dispersion cup		

	5	Double Ring Infiltrometer		
	6	International Pipette		
	7	Hot Air Oven		
	8	Hydraulic Conductivity Unit		
	9	Soil Thermometer		
	10	Boycous Hydrometer		
	11	Tensiometer		

### 3. Farm facilities

❖ **Total Farm area in hectare :4.63Ha.**

❖ **Irrigated Land in hectare :2.5 Ha.**

#### **Instructional Farm and facilities available:**

To perform physical, chemical, biological and mineralogical properties sophisticated instruments are available in the department to list few are Atomic Absorption Spectrophotometer, Total carbon analyzer, Hydrated generator for heavy metals, **Microwave digestion, Yodder's sieve shaker, Dry sieve shaker**, Infiltrometer, pH, EC meter, UV -visible spectrophotometer, N auto analyzer, Kjeltex system, Multiband radiometer for remote sensing, Autotitrator, Flame Photometer, Specific ion meter etc.

#### **CENTRAL INSTRUMENTATION CELL (PHASE-I AND II) AND TISSUE TESTING LABORATORY**

To cater the needs of farmers of Maharashtra region, a well-equipped Tissue Testing Laboratory with a modern State of Art is being established with financial support from Directorate of Horticulture, Govt.of Maharashtra.

<b>Department of Soil Science &amp; Agril. Chemistry Revenue receipts of the Soil Testing, Training, Bio Fertilizer, Vermi compost</b>			
<b>Sr. No.</b>	<b>Year</b>	<b>Amount of Research contingency (In Lakh)</b>	<b>Whether it meet students demand</b>
<b>1</b>	2018-19	15.28	Yes
<b>2</b>	2019-20	13.81	
<b>3</b>	2020-21	15.64	
<b>4</b>	2021-22	28.91	
<b>5</b>	2022-23	14.95	
	<b>Total</b>	<b>88.59</b>	

### EXPERIMENTAL FARM

The department has its own research farm of 4.63 ha with irrigation facilities

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
Department of Soil Science		
4.63 ha.	Tube Well 02	• Conducted 12 M.Sc. (Agri.) experiments



Experimental Farm of SSAC



Drone View of Experimental Farm of SSAC

#### 6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)

- M.Sc. (Agri.) Programme



The course plan for the degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. Organic Farming, Integrated nutrient management, Educational methodology, Remote Sensing, GIS, GPS, Statistics in fertilizer trials, Computer application in Agriculture, Faculty development programme, Management of problematic soils, Bio-fertilizer, Soil and water analysis, Heavy metal pollution, Laboratory equipments and its maintenance etc.

The minor and supporting course plan is finalized by the SAC taking into consideration the student's academic record and training requirements in the particular field of students thesis research work. Separate 30 credit are assigned to research work. There is interdisciplinary approach for PG mainly in two ways:

- i) In selecting major, minor courses, supporting courses and NCCC.
- ii) Formulation of Advisory Committee to guide a PG student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the PG student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture.

**Department Hands of training of M.Sc. (Agri.) as per BSMA.**

Department	Hands of training
<b>Department of Soil Science</b>	
<b>M.Sc. (Agri.) Soil Sci. &amp; Agril.Chem. 2018-19 to 2022-23</b>	<ul style="list-style-type: none"><li>▪ Mechanical analysis by international pipette and hydrometer method ,</li><li>▪ Water stable aggregate analysis by wet sieving method (Yoder's apparatus),</li><li>▪ Determination of soil moisture content by Direct method-gravimetric ,</li><li>▪ Determination of hydraulic conductivity under saturated and unsaturated condition,</li><li>▪ Determination of infiltration rate by double ring in filtrot meter</li><li>▪ Determination of CEC and AEC of soils.</li><li>▪ Analysis of equilibrium soil solution for pH, EC by use of pH meter and conductivity meter.</li><li>▪ Determination of titratable acidity of an acid soil by BaCl<sub>2</sub>-TEA method.</li><li>▪ Determination of lime requirement of an acid soil by buffer method.</li><li>▪ Determination of gypsum requirement of an alkali soil.</li><li>▪ Identification and quantification of minerals in soil fractions</li><li>▪ Morphological properties of soil profile under different landforms</li><li>▪ Classification of soils using soil taxonomy</li><li>▪ Calculation of weathering indices and its application in soil formation</li><li>▪ Grouping soils using available data base in terms of soil quality</li><li>▪ Aerial photo and satellite data interpretation for soil and land use</li><li>▪ Preperation of standared, Buffer solutions</li><li>▪ Analysation of quality parameters of fruit, cereal, oil seed, pulses crops.</li><li>▪ Determination of reducing, nonreducing, total sugars</li></ul>



	<ul style="list-style-type: none"><li>▪ Estimation of protein, vitamin-C, total acidity, fat, oil content</li><li>▪ Basic Concepts of Remote Sensing</li><li>▪ Application of Remote sensing in Agriculture</li><li>▪ Handling of Spectrophotometers</li><li>▪ Taking reflectance of different plant canopies</li><li>▪ Calculation of different vegetation indices</li><li>▪ Estimation different plant pigments and correlation with yield.</li><li>▪ Principles of colorimetry</li><li>▪ Flame photometer and atomic absorption spectroscopy</li><li>▪ Chemical analysis of soil for total and available nutrients</li><li>▪ Analysis of plants for essential elements</li><li>▪ Determination of soil microbial population</li><li>▪ Soil microbial biomass</li><li>▪ Elemental composition, fractionation of organic matter and functional groups</li><li>▪ Decomposition of organic matter in soil</li><li>▪ Soil enzymes</li><li>▪ Measurement of important soil microbial processes such as ammonification, nitrification, N<sub>2</sub> fixation, S oxidation, P solubilization and mineralization of other micro nutrients</li><li>▪ Sampling of sewage water, sewage sludge solid/liquid industrial waste, polluted soil and plant</li><li>▪ Estimation of dissolved and suspended solids in liquid pollutant and pH, EC of solid samples</li><li>▪ Estimation of BOD (Biological) and COD (chemical oxygen demand) of liquid waste.</li><li>▪ Estimation of nitrate and ammoniacal nitrogen, phosphorus in sample</li><li>▪ Principles of visible, ultraviolet and infrared spectrophotometry, atomic absorption, flame photometry,</li><li>▪ Analysis of soil and plant samples for N, P, K, Ca, Mg, S, Zn, Cu, Fe, B and Mo.</li><li>▪ Analysis of plant materials by digesting plant materials by dry ashing and soil by wet digestion methods.</li><li>▪ Preparation of solutions for standard curves, analytical reagents, qualitative reagents, indicators and standard solutions for acid base,</li><li>▪ Soil, water and plant sampling techniques, their processing and handling.</li><li>▪ Characterization of acid, acid sulphate, salt – affected and calcareous soils</li><li>▪ Determination of cations (Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup> and Mg<sup>++</sup>) in ground water and soil samples</li><li>▪ Lime and gypsum requirements of acid and sodic soils.</li></ul>
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<p><b>2022-23</b> <b>BSMA*</b> <b>Alloted to</b> <b>2022 Batch</b></p>	<ul style="list-style-type: none"> <li>▪ Mechanical analysis by international pipette and hydrometer method ,</li> <li>▪ Water stable aggregate analysis by wet sieving method (Yoder's apparatus),</li> <li>▪ Determination of soil moisture content by Direct method-gravimetric ,</li> <li>▪ Determination of hydraulic conductivity under saturated and unsaturated condition,</li> <li>▪ Determination of infiltration rate by double ring in filtrot meter</li> <li>▪ Determination of CEC and AEC of soils.</li> <li>▪ Analysis of equilibrium soil solution for pH, EC, by use of pH meter and conductivity meter.</li> <li>▪ Determination of titratable acidity of an acid soil by BaCl<sub>2</sub>-TEA method.</li> <li>▪ Determination of lime requirement of an acid soil by buffer method.</li> <li>▪ Determination of gypsum requirement of an alkali soil.</li> <li>▪ Identification and quantification of minerals in soil fractions</li> <li>▪ Morphological properties of soil profile in different landforms</li> <li>▪ Classification of soils using soil taxonomy</li> <li>▪ Calculation of weathering indices and its application in soil formation</li> <li>▪ Grouping soils using available data base in terms of soil quality</li> <li>▪ Aerial photo and satellite data interpretation for soil and land use</li> <li>▪ Preperation of standared, Buffer solutions</li> <li>▪ Analysation of quality parameters of fruit, cereal, oil seed, pulses crops.</li> <li>▪ Determination of reducing, nonreducing, total sugars</li> <li>▪ Estimation of protein, vitamin-C, total acidity, fat, oil content</li> <li>▪ Basic Concepts of Remote Sensing</li> <li>▪ Application of Remote sensing in Agriculture</li> <li>▪ Handling of GTMR, GER 1500, Spectrophotometers</li> <li>▪ Taking reflectance of different plant canopies</li> <li>▪ Calculation of different vegetation indices</li> <li>▪ Estimation different plant pigments and correlation with yield.</li> <li>▪ Principles of colorimetry</li> <li>▪ Flame photometer and atomic absorption spectroscopy</li> <li>▪ Chemical analysis of soil for total and available nutrients</li> <li>▪ Analysis of plants for essential elements</li> <li>▪ Determination of soil microbial population</li> <li>▪ Soil microbial biomass</li> <li>▪ Elemental composition, fractionation of organic matter and functional groups</li> <li>▪ Decomposition of organic matter in soil</li> <li>▪ Soil enzymes</li> <li>▪ Measurement of important soil microbial processes such as ammonification, nitrification, N<sub>2</sub> fixation, S oxidation, P solubilization and mineralization of other micro nutrients</li> <li>▪ Sampling of sewage water, sewage sludge soild/liquid industrial waste, polluted soil and plant</li> <li>▪ Estimation of dissolved and suspended solids in liquid pollutant and pH, EC of solid samples</li> <li>▪ Estimation of BOD (Biological) and COD (chemical oxygen demand) of</li> </ul>
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	<p>liquid waste.</p> <ul style="list-style-type: none"> <li>▪ Estimation of nitrate and ammoniacal nitrogen, phosphorus in sample</li> <li>▪ Topic analysis, Stage courage and presentation skills.</li> </ul>
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#### 6.4.6 Supervision of students in M.Sc. (Agri.) degree programmes (2018-19 to 2022-23)

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Soil Science</b>				
1	2018-19	Dr. V.D. Patil	DI and Dean	03
2		Dr. Syed Ismail	Head	02
3		Prof. U. N. Karad	Associate Professor	01
4		Dr. A.L. Dhamak	Associate Professor	02
5		Dr. S.L. Waikar	Asstt. Professor	02
6		Dr.M.S. Deshmukh	Asstt. Professor	02
7		Dr. S.T. Shirale	Asstt. Professor	01
1	2019-20	Dr. Syed Ismail	Head	02
2		Dr. P. H. Vaidya	Professor	01
3		Dr. A.L. Dhamak	Associate Professor	02
4		Dr. R.N. Khandare	Assistant Professor	01
5		Dr. S.L. Waikar	Asstt. Professor	01
6		Dr.M.S. Deshmukh	Asstt. Professor	01
7		Dr. S.T. Shirale	Asstt. Professor	01
8		Dr.P.H. Gourkhede	Asstt. Professor	01
9		Dr.S.P. Zade	Asstt. Professor	01
1	2020-21	Dr. Syed Ismail	Head	02
2		Dr. P.H. Vaidya	Professor	02
3		Dr. A.L. Dhamak	Associate Professor	01
4		Dr. R.N. Khandare	Associate Professor	01
5		Dr. S.L. Waikar	Asstt. Professor	01
6		Dr. M.S. Deshmukh	Asstt. Professor	01
7		Dr. S.T. Shirale	Asstt. Professor	01
8		Dr. P.H. Gourkhede	Asstt. Professor	01
9		Dr. S.P. Zade	Asstt. Professor	01
10		Dr. P.K. Rathod	Asstt. Professor	01
1	2021-22	Dr. Syed Ismail	Associate Dean & Principal	02
2		Dr. P.H. Vaidya	Professor & Head	02
3		Dr. A.L. Dhamak	Associate Professor	02

4		Dr. R.N. Khandare	Associate Professor	01
5		Dr. S.L. Waikar	Asstt. Professor	01
6		Dr.M.S.Deshmukh	Asstt. Professor	01
7		Dr. S.T. Shirale	Asstt. Professor	01
8		Dr.P.H.Gourkhede	Asstt. Professor	01
9		Dr.S.P.Zade	Asstt. Professor	01
1	2022-23	Dr. Syed Ismail	Associate Dean & Principal	01
2		Dr. P.H. Vaidya	Professor & Head	02
3		Dr. A.L. Dhamak	Associate Professor	01
4		Dr. H.K. Kausadikar	Associate Professor	01
5		Dr. S.L. Waikar	Asstt. Professor	01
6		Dr.M.S. Deshmukh	Asstt. Professor	02
7		Dr. S.T. Shirale	Asstt. Professor	01
8		Dr.P.H. Gourkhede	Asstt. Professor	01
9		Dr.S.P. Zade	Asstt. Professor	02
		Dr. P.K.Rathod	Asstt. Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	M.Sc.(Agri.)	13	7 + 6* =13
2	2019-20	M.Sc.(Agri.)	13	7 + 6* =13
3	2020-21	M.Sc.(Agri.)	13	7 + 6* =13
4	2021-22	M.Sc.(Agri.)	14	7 + 6* =13
5	2022-23	M.Sc.(Agri.)	13	7 + 6* =13
<b>*Adjunt Faculty</b>				

**6.4.7 Feedback of stakeholders**

An exercise was made to collect the feedback of students. They are satisfied with the facilities of this department, smart classrooms and well-equipped laboratories. An attempt was also made to collect the feedback of their parents. They also have quoted good remark about this department.

Most of the M.Sc. (Agri.) students of this department are employed in banking sector, private agricultural colleges, SAUs, seed, fertilizer and allied companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this Department. Most of the M.Sc. (Agri.) research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this Department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

<b>Sr. No.</b>	<b>Type of stakeholders</b>	<b>Feedback mechanism</b>	<b>Action Taken</b>
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with student's participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding Academic performance of students	Students problems regarding related to registration of semester, educational tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.



		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback was submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
M.Sc. (Agri.)	13	13	13	13	14	13	1(7.7)	2(15.6)	1(7.7)	0(0)	3(23.7)

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
12	Soil Science	M.Sc. (Agri.)	Online ICAR E-courses, ppt Presentations etc, Android application on Plant Nutrition VNMKV, BlogSpot (www.pciss.blogspot.com)

- Internet facilities available for M.Sc. (Agri.) students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab.
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- One LCD projectors available.
- Online lectures are arranged for M.Sc. (Agri.) students during COVID-19 situations.
- Learning Management system (LMS): Google classroom for M.Sc. (Agri.) students.
- Conducted online examination for M.Sc. (Agri.) students.
- M.Sc. (Agri.) classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

#### Android apps

- Plant Nutrition

**Blog**

- [www.pcisss.blogspot.in](http://www.pcisss.blogspot.in)

**Other digital media used**

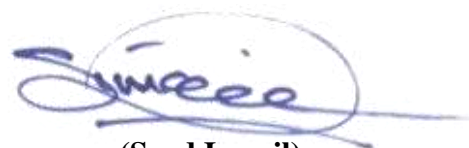
- Google Classroom, WhatsApp etc.

**6.4.10** The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.

**6.4.11** Since the accreditation of programmes in related to the All-India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.


**6.4.12** Certificate (Applicable when SSR is submitted for programme)

I **Dr. Syed Ismail**, Dean( Agri), College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




(Syed Ismail)  
Dean (Agri),

## Appendix-I M.Sc. Students Feedback



कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani





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**STUDENTS' FEEDBACK FORM**  
(for M.Sc. & Ph.D. Students)

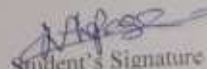
1	Name of the Student	Pavil Prakash Chandrakant		
2	Registration No	2021A/127M		
3	Degree and Semester	M.Sc agri. (IV <sup>th</sup> sem)		
4	Name of Department	Soil Science & Agri. Chemistry		
5	Departmental Library facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Pavil*  
Student's Signature



 कृषि महाविद्यालय परभणी  
 वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
 College of Agriculture, Parbhani  
 Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani
 

**STUDENTS' FEEDBACK FORM**  
(for M.Sc. & Ph.D. Students)


1	Name of the Student	Phopase Gajanan Vaisanath		
2	Registration No	2021A1128M		
3	Degree and Semester	MSc. (agri) IV <sup>th</sup> sem (Indipen)		
4	Name of Department	SSAC		
5	Departmental Library facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature





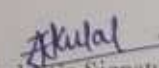
कृषि महाविद्यालय परभणी  
वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
College of Agriculture, Parbhani  
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani





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**STUDENTS' FEEDBACK FORM**  
(for M.Sc. & Ph.D. Students)


1	Name of the Student	Kulal Jagannath Ashok		
2	Registration No	2021A/125M		
3	Degree and Semester	MSc in SSAC (I <sup>st</sup> sem)		
4	Name of Department	Soil Science & Agri. Chemistry		
5	Departmental Library facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature


 कृषि महाविद्यालय परभणी  
 वसंतराव नाईक मराठवाडा कृषि विद्यापीठ, परभणी  
 College of Agriculture, Parbhani  
 Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani
 

**STUDENTS' FEEDBACK FORM**  
(for M.Sc. & Ph.D. Students)

1	Name of the Student	Jadhav Ganesh Rambhau		
2	Registration No	021A123M		
3	Degree and Semester	MSc in SSAC (III <sup>rd</sup> sem)		
4	Name of Department	Soil science & Agril. chemistry		
5	Departmental Library facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
 Student's Signature



**VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH**  
**Department of Soil Science & Agricultural Chemistry**  
**College of Agriculture, Parbhani**  
**PARBHANI - 431 402 [MAHARASHTRA]**



## **6.4 Self-study report for the programme Ph.D. (Agri.)**

### **6.4.1 Brief history of degree programme**

#### **1. Year of start**

The Department of Soil Science and Agricultural Chemistry came into existence in 1956 with the establishment of College of Agriculture. In early days of its inception, the department catered the need of under graduate teaching besides some preliminary soil and plant research. However, with the introduction of post graduate education in 1970 research activities extended cutting across the different sub disciplines with major emphasis on soil fertility and plant nutrition with subsequent strengthening of infrastructure facilities for undergraduate and post graduate teaching. At present department has developed into full grown discipline encompassing various sections viz. soil chemistry, soil genesis and classification, soil fertility, soil technology, soil biology, micro nutrient research, recycling of organic wastes and application of remote sensing technologies for soil fertility and plant nutrition. A central instrumentation cell phase-I and Phase-II with modern State of Art Laboratory equipped with sophisticated equipments like Atomic Absorption Spectrophotometer, Total organic carbon analyzer, Hydrated generator, Microwave digestion and computer facility at present catering the need of research and farmers soil and plant analysis programme. Further Ph.D. (Agri.) degree programme was started in 1978.

#### **2. Objectives**

Department of Soil Science and Agricultural Chemistry is charged with following responsibilities

1. To impart under graduate and post graduate instructions.
2. To undertake post graduate students research and train the young scientists in agriculture research
3. To carry out basic and strategic research on soil and in priority areas for overall development of agricultural research in the region.

To provide technical guidance to the farming community on soil health and water management for sustainable agricultural production.

### **3. Accomplishment**

#### **▪ Teaching:**

The Head is an overall in-charge of the department and responsible for planning, guiding, monitoring and executing activities pertaining to teaching, research and extension education. The professor is entrusted with the responsibility of supervision of teaching and examination work in the department. Postgraduate teaching and research are fully integrated in this department with the help of academic staff of the faculty. The teaching programme of the department includes courses of mainly agriculture, horticulture, Agril. engineering, community science and faculty for B.Sc. (Agri), M.Sc. and Ph.D. in soil science. The instructional programme is restructured on ICAR pattern. The department has accommodated 12 credits of Soil Science and Agricultural Chemistry for Agriculture graduation in old syllabus and new syllabus implemented from 2017 with 11 credits. The credit load for master degree program as per old syllabus major and supporting 25 and new new syllabus major and supporting courses 23 credits and Research 30 credits and Ph.D. degree program as per old syllabus major and supporting 17 and new syllabus major and supporting courses 19 credits and research 75 credits.

#### **▪ Research:**

Research is an integral component of the education system. The proposed research projects are reviewed, discussed, modified and implemented considering need based priorities and thrust areas for Maharashtra region. The department of Soil Science and Agricultural Chemistry is engaged in soil, crop and fertilizer research over four decades. In addition to two ICAR projects (AICRP on Soil Biodiversity and Biofertilizers and AICRP on Long Term Fertilizer experiment), Eight product testing project on cotton, soybean and wheat crop of Smart Tech Pvt. Ltd. Pune, Manson Crop Science Nasik, RCF Mumbai, Agro Chemical Pvt. Ltd. Pune amounting 12.00 Lakhs. Two Adhoc project, one is chief minister funded adhoc project amount Rs. 2.7 cr. on “Automation in soil testing project laboratory and development of decision support system for sustainable agriculture of marathwada region of Maharashtra”. 2<sup>nd</sup> adhoc project on Nano Fertilizers funded by IFFCO amount Rs. 25 Lakhs. During last five years revenue receipts generated from soil testing, soil testing training, biofertilizers and vermicomposting of the amounting Rs. 88.59 Lakhs.

1. More than three thousand Soil Health cards were distributed to the farmers.
2. Two trainings were organized on soil, water and plant analysis



**Ph.D. (Agri.) students working in Laboratory.**

#### **Year-2018**

1. Seed treatment of liquid zinc solubilizer *Pseudomona striata* @ 100 ml /10 kg seed + application of  $\text{ZnSO}_4$  30 kg  $\text{ha}^{-1}$  is recommended to soybean along with recommended dose of fertilizers (30:60:30 NPK kg  $\text{ha}^{-1}$ ) for enhancement of soybean seed yield, monetary return and improvement in soil properties,
2. It is recommended that cattle of Parbhani district of Marathwada region need to be supplemented with copper, manganese and zinc by formulating area specific mineral mixture using highly bio-available mineral salt to meet the nutrient deficiency of Zn, Cu and Mn which were found deficient in soil, fodder and serum of this region.

#### **Year-2019**

1. It is recommended that very shallow soils (20-25 cm), silty clay loam, underlined by medium hard to hard murrum layer soils (Entisols) are to be selected for higher production of custard apple.

#### **Year-2020**

1. In Inceptisols of Marathwada region, in order to obtain maximum yields , monetary return from kharif soybean and for the improvement in soil properties application of recommended dose of fertilizer i.e. 30: 60:30 kg N, $\text{P}_2\text{O}_5$  and  $\text{K}_2\text{O}$  along with tank silt @ 5 t  $\text{ha}^{-1}$  + FYM @ 2.5 t  $\text{ha}^{-1}$  or tank silt @ 10t  $\text{ha}^{-1}$  with RDF is recommended.



### Year-2021

1. The enhancement of drought tolerance, yield, monetary return and improvement in soil properties under wheat, seed treatment of liquid *Bacillus licheniformis* @ 100ml / 10 kg seed was found as promising for drought tolerance along with recommended dose of fertilizers and is recommended to rainfed wheat.
2. Soil Contain  $\text{CaCO}_3$  less than 15 per cent very deep soil Vertisols (Typic Haplusters) followed by Moderately deep soil Inceptisols (Typic Haplusters) select for higher production of Tamarind in Marathwada region Maharashtra. If the calcium carbonates greater than 15 per cent (15 to 25 %), application of FYM and protective irrigation for higher yield of tamarind.
3. For the enhancement of pigeon pea yield, monetary returns and improvement in soil properties, seed treatment of liquid *Pseudomonas striata* as zinc solubilizer @ 100 ml/10 kg seed + application of 30 kg  $\text{ZnSO}_4 \text{ ha}^{-1}$  is recommended to pigeon pea along with recommended dose of fertilizers.
4. In Vertisol of Marathwada region, to get maximum yield and monetary returns of pigeon pea, application of  $\text{K}_2\text{O}$  and micronutrient grade-I @ 25 kg  $\text{ha}^{-1}$  or micronutrient grade-II @ 0.5% at flowering stage is recommended in addition with recommended dose of fertilizer (i.e. 25:50 N and  $\text{P}_2\text{O}_5$  kg  $\text{ha}^{-1}$ ).

### Year-2022

1. Select the soybean variety MAUS-162 and MAUS-71 for early and higher germination of soybean under low rainfall i.e. 75 per cent field capacity soil moisture and other varieties MAUS-158, JS-335 to be sown at 100 per cent field capacity soil moisture in soils of Marathwada region

### Year-2023

1. For biofortification of iron and zinc in seed and straw of wheat and enhancement of soil properties particularly iron and zinc, yield, quality and monetary returns, seed treatment of liquid *Pseudomonas striata* as iron and zinc solubilizer @ 100 ml/10 kg seed along with recommended dose of fertilizer is recommended.
2. For the enhancement of tomato growth, yield, quality, improvement in soil properties and monetary returns, the application recommended dose of fertilizers along with Beejamruth (seedling root treatment), Jeevamruth (soil application @ 500 litre  $\text{ha}^{-1}$ ) and Panchagavya (foliar spray @ 3% at 15, 30, 45, 60, 75 and 90 DAT) is recommended.

▪ **Extension education:**

Based on the research findings of the various research projects, scientists from the faculty are helping farmers in solving their practical problems. Moreover, sincere and dedicated efforts are put in to popularize the recent technologies in agriculture through Radio and TV talks, publishing articles in newspapers and magazines, conducting farmers' rallies and workshops and also frontline demonstration.

All Heads of the departments are actively involved and act as a member of University Extension Education Council. Faculty members are actively engaged as SMS in shetkari melawa and farmers group discussions organised by the University and also contributed in Agro Advisory Services (gramin krishi mosam seva) for the farmers.



**Guest lecture on “Soil landscape analysis in pedological investigations” dt. 16 Feb., 2023**

#### 6.4.2 Faculty strength (2018-19 to 2022-23)

##### Details of Faculty Strength (2018-19 to 2022-23)

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR	Deviation**
<b>Department of Soil Science &amp; Agricultural Chemistry</b>						
1	2018-19	Head	01	00	--	100
2		Professor	01	01	--	100
3		Associate Professor	04	02	--	50
4		Assistant Professor	08	05	--	63
1	2019-20	Head	01	01	--	100
2		Professor	01	01	--	100
3		Associate Professor	04	02	--	50
4		Assistant Professor	08	05	--	63
1	2020-21	Head	01	01	--	100
2		Professor	01	01	--	100
3		Associate Professor	04	02	--	50
4		Assistant Professor	08	05	--	63
1	2021-22	Head	01	01	--	100
2		Professor	01	01	--	100
3		Associate Professor	04	02	--	50
4		Assistant Professor	08	04	--	50
1	2022-23	Head	01	00	--	00
2		Professor	01	01	--	100
3		Associate Professor	04	01	--	25
4		Assistant Professor	08	06	--	75

\* The faculties mentioned above are allotted for B.Sc., M.Sc. & Ph.D. Degree programme

### 6.4.3 Technical and Supporting staff (2018-19 to 2022-23)

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this Department are shown in following table.

Sr. No.	Year	Sanctioned staff*	Sanctioned staff	Staff in place	Vacant position	Faculty recommended	Deviation**
1	2018-19	Technical (SRA/JRA/Agril. Asstt.)	04	03	-	-	-
2		Supporting including farm and field workers		03	-	-	-
1	2019-20	Technical (SRA/JRA/Agril. Asstt.)	04	04	-	-	-
2		Supporting including farm and field workers		03	-	-	-
1	2020-21	Technical (SRA/JRA/Agril. Asstt.)	04	04	-	-	-
2		Supporting including farm and field workers		03	-	-	-
1	2021-22	Technical (SRA/JRA/Agril. Asstt.)	04	03	-	-	-
2		Supporting including farm and field workers		02	-	-	-
1	2022-23	Technical (SRA/JRA/Agril. Asstt.)	04	02	-	-	-
2		Supporting including farm and field workers		02	-	-	-

\* Above Technical / supporting staff are helping B.Sc. (Agri.), M.Sc. (Agri.) & Ph.D. (Agri.) students for conducting field trials, practicals and demonstrations.

#### 6.4.4 Class room and Laboratories (2018-19 to 2022-23)

The Department has created excellent educational atmosphere for the students by providing well equipped laboratories, well-furnished classrooms with audio-visuals facilities and Wi-Fi connectivity. Details given as below;

##### 1. Classroom

Department of Soil Science & Agril. Chemistry			
1	Classroom No. 1	40	Sufficient for Ph.D. (Agri.) Students



Smart Seminar Hall





## 2. Laboratories



**Ph.D. (Agri.) Students Working in Labortary**

### Laboratories

Laboratory	List of major equipment		Capacity	Remark
<b>LTFE Lab</b>	1	pH Meter	32	Sufficient for Ph.D. Agri. students
	2	EC Meter		
	3	Flame photometer		
	4	Spectrophotometer		
	5	Hot air oven		
	6	Distillation Unit		
	7	Shakers		
	8	Soxhlet's Apparatus		
<b>Bio fertilizer Lab</b>	1	Autoclave		Sufficient for Ph.D. Agri. students
	2	Laminar Flow		
	3	Horizontal Shaker		
	4	Spectrophotometer		
<b>CIC-I</b>	1	Atomic Absorption Spectrophotometer		Sufficient for Ph.D. Agri. students
	2	TOC-L		
	3	Double beam UV- Spectrophotometer		
	4	Flame Photometer		
	5	N-Analyzer with Digestion block		
	6	Microwave digestion extraction system		
	7	pH meter		
	8	EC meter		
	9	Mechanical Shaker		

	10	Leaf Area Meter		
	11	Hot air oven		
	12	Muffle Furnace		
	13	Centrifuge Machine		
	14	Double Distillation Unit		
	15	Remi Orbital Shaker Incubator		
<b>PG Lab</b>	1	Double beam UV- Spectrophotometer	13	
	2	Flame Photometer		
	3	N-Analyzer with Digestion block		
	4	Colony counter		
	5	pH meter		
	6	EC meter		
	7	Horizontal Shaker		
	8	Double Distillation Unit		
	9	Slide Warming Table plate		
	10	stirrer		
<b>Soil Physics Lab</b>	1	Yodders Seive shaker	13	Sufficient for Ph.D. Agri. students
	2	Suction Pump		
	3	Dry sieve shaker		
	4	Dispersion cup		
	5	Double Ring Infiltrometer		
	6	International Pipette		
	7	Hot Air Oven		
	8	Hydraulic Conductivity Unit		
	9	Soil Thermometer		
	10	Boycous Hydrometer		

### 3. Farm facilities

**Total Farm area in hectare : 4.63Ha.**

**Irrigated Land in hectare : 2.5 Ha.**

#### **Instructional Farm and facilities available:**

To perform physical, chemical, biological and mineralogical properties sophisticated instruments are available in the department to list few are Atomic Absorption Spectrophotometer, Total carbon analyzer, Hydrated generator for heavy metals, Microwave digestion, Yodder's sieve shaker, Dry sieve shaker, Infiltrometer, pH, EC meter, UV -visible spectrophotometer, N auto analyzer, Kjeltex system, Multiband radiometer for remote sensing, Autotitrator, Flame Photometer, Specific ion meter etc.

**CENTRAL INSTRUMENTATION CELL (PHASE-I AND II) AND TISSUE TESTING LABORATORY**

To cater the needs of farmers of Maharashtra region, a well-equipped Tissue Testing Laboratory with a modern State of Art is being established with financial support from Directorate of Horticulture, Govt. of Maharashtra.

**EXPERIMENTAL FARM**

The department has its own research farm of 4.63 ha with irrigation facilities

Area (ha)	Irrigation facilities	No. of experiment conducted/Year
<b>Department of Soil Science</b>		
<b>4.63 ha.</b>	Tube Well 02	<ul style="list-style-type: none"> <li>Conducted 3 Ph. D. (Agri.) experiments</li> </ul>

<b>Department of Soil Science &amp; Agril. Chemistry Revenue receipts of the Soil Testing, Training, Bio Fertilizer, Vermi compost</b>			
Sr. No.	Year	Amount of Research contingency (In Lakh)	Whether it meet students demand
1	2018-19	15.28	Yes
2	2019-20	13.81	
3	2020-21	15.64	
4	2021-22	28.91	
5	2022-23	14.95	
	<b>Total</b>	<b>88.59</b>	

**4. Workshop/Other instructional unit if any give details.**

**5. Theory and practical batches for the degree programme.**

<b>Ph.D. (Agri.) Average 3 students per department</b>					
Sr. No.	Credit	Group-I		Total	
		Theory Batch	PracticalBatch	Theory Batch	PracticalBatch
<b>1</b>	2 (1+1)	01	01	01	01
<b>2</b>	3 (2+1)	02	01	02	01

**6.4.5 Conduct of practical and hands on training: (2018-19 to 2022-23)****Ph.D. Course Hands on training:**

The course plan for the Ph.D. (Agri.) degree programme is designed to enable the student to achieve proficiency in the field of his/her specialization by supporting disciplines. The minor and supporting course plan is finalized by the SAC taken into consideration the student's academic record and training requirements in the particular field of students thesis

research work. Separate 65 credits are assigned to research work. There is interdisciplinary approach mainly in two ways:

1. In selecting major, minor courses, supporting courses and NCCC.
2. Formulation of Advisory Committee to guide a Ph.D. student, the committee members are from different disciplines. These members meet frequently to share their experience and guide the Ph.D. student.

BSMA syllabus is implemented from the academic year 2022-23 which is more practical oriented for overall development of students to sustain him/her in the new challenges of agriculture. Separate 75 credits are assigned to research work

Department	Hands on training
Ph.D. (Agri.) Soil Science	<ul style="list-style-type: none"> <li>▪ Mechanical analysis by international pipette and hydrometer method,</li> <li>▪ Water stable aggregate analysis by wet sieving method (Yoder's apparatus), Determination of soil moisture content by Direct method-gravimetric,</li> <li>▪ Determination of hydraulic conductivity under saturated and unsaturated condition,</li> <li>▪ Determination of infiltration rate by double ring infiltrometer</li> <li>▪ Determination of CEC and AEC of soils.</li> <li>▪ Analysis of equilibrium soil solution for pH, EC, <math>E_h</math> by use of <math>E_h</math>-pH meter and conductivity meter.</li> <li>▪ Determination of titratable acidity of an acid soil by <math>BaCl_2</math>-TEA method.</li> <li>▪ Determination of lime requirement of an acid soil by buffer method.</li> <li>▪ Determination of gypsum requirement of an alkali soil.</li> <li>▪ Modern concept of Physical Chemistry of Soils and clays, thermodynamics, diffuse double layer, adsorption/desorption isotherm, common solubility equilibrium</li> <li>▪ To identify rocks and minerals, pedagogical approaches, morphological and edaphological study of soils.</li> <li>▪ Biochemistry related with formation, genesis and classification of SOM, Types of organic matter, fractions of organic matter and chemistry of organic matter and factors affecting soil organic matter.</li> <li>▪ Study of land capability classification and land suitability classification, topography and relief related with water reservoir and its management.</li> <li>▪ Study of soil degradation, soil erosion, erodability, site specific nutrient management and diagnosis and recommendation of interated approach.</li> <li>▪ Topic analysis, Stage courage and presentation skills.</li> </ul>

#### 6.4.6 Supervision of students in Ph.D. Agri. degree programmes (2018-19 to 2022-23)

Sr. No	Year	Name of faculty	Designation	No. of supervision of students
<b>Department of Soil Science</b>				
1	2018-19	Dr. V.D. Patil	DI and Dean	01
2		Dr. Syed Ismail	Head	01
1	2019-20	Dr. V.D. Patil	DI and Dean	01
2		Dr. A.L. Dhamak	Associate Professor	02
1	2020-21	Dr. V.D. Patil	DI and Dean	02
2		Dr. P.H. Vaidya	Professor	01
1	2021-22	Dr. Syed Ismail	Associate Dean & Principal	01
2		Dr. P.H. Vaidya	Professor & Head	01
3		Dr. A.L. Dhamak	Associate Professor	01
4		Dr. H.K. Kausadikar	Associate Professor	01
1	2022-23	Dr. P.H. Vaidya	Professor & Head	01
2		Dr. R.N. Khandare	Associate Professor	01
3		Dr. A.L. Dhamak	Associate Professor	01

**Intake capacity and No. of qualified faculty (2018-19 to 2022-23)**

Sr. No.	Year	Name of Degree Programme	Intake capacity*	No. of qualified faculty
1	2018-19	Ph.D. (Agri.)	3	5
2	2019-20	Ph.D. (Agri.)	3	5
3	2020-21	Ph.D. (Agri.)	3	5
4	2021-22	Ph.D. (Agri.)	3	5
5	2022-23	Ph.D. (Agri.)	3	5
<b>*30 % seats for all Postgraduate Courses are filled at all India basis through Common Entrance Examination conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)</b>				

**6.4.7 Feedback of stakeholders**

Most of the PhD students of this department are employed in private agricultural colleges, seed, fertilizer and allied companies and Government Sector. An attempt was also made to collect the feedback of employers of these students. According to them, these students are performing well even more than their satisfaction.

Attempts were also made to obtain the feedback of farmers for conducting research in the laboratories or field of this Department. Most of the Ph.D. research conducted at this location is preferably based on the feedback of the farmer. The priority is also given to conduct the research on the major crops of this region. According to their feedback the research is being carried out in the following areas at this department.

**(Students, parents, industries, employers, farmers etc.) (2018-19 to 2022-23)**

Sr. No.	Type of stakeholders	Feedback mechanism	Action Taken
1	Students	Complaint box for providing suggestions is there in Department.	Any complaints received were redressed properly.
		Faculty in meeting discuss the issues related to academic, research and extension activities	Computer, internet and Wi-Fi facilities are provided Strengthening of placement cell and competitive forum
		BOS meetings along with students participation for finalization of postgraduate research programme.	Research experiments along with objectives of research work were finalised and facilities to conduct the experiments were made available.
		Through electronic media such as email, phone and personal visit, orientation and farewell programme	Providing class notes to students, ppt, demonstrations etc
		Advisee meetings by respective advisors every month regarding	Students problems regarding related to registration of semester, educational



		Academic performance of students	tour, exams, credit load for each semester etc. were addressed.
2	Parents	Telephonic communication by advisor to student's parents.	Telephonic communication to parents regarding academic and research progress.
		Students parents meeting were conducted by respective advisors every semester.	Parents were informed about the academic progress of their wards.
		Half yearly meeting of Parents with Advisors/ guide	Half yearly meeting of Parents with Advisors/ guide. Register maintained by advisor and research guide.
3	Industries	Need based and location specific research programme Required trained human resource with industrial specialised use	Action taken as per the suggestion
		During the visit to university/ AIA attachment	During the visit to university/ AIA attachment.
4	Employers	Grievances committee meeting	Action taken as per the suggestion of Employee
5	Farmers	Farmer's feedback in person, telephonic and through radio and television programme, field visits, group discussions, Board of studies, ZREAC, ARC. and E-surveillance	Information and demonstration on methods of composting, vermicompost preparation, collection of soil samples, and reclamation of problematic soils has given. Advised to use recommended doses of nutrients to major crops as per soil test report. Liquid bio fertilizers are available to farmers for sale. Experiments on pest management, nutrient management, high density planting, Comparative studies on pomegranate Air layer Vs Tissue culture Seedling were conducted as per the current need of farming community. Feedback were submitted in research review at university level. Need based and location specific research programme was initiated.
		Farmers rally during Kharif and Rabi season	Farmers are advised on Kharif and Rabi crop production technology and plant protection
		During the visit to villages under college extension block, student READY programme and extension activities	Feedbacks were submitted in research review at university level.

#### 6.4.8 Students intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition ( %)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
Ph.D. (Agri.)	03	03	03	03	03	03	01	02	03	02	03

\*25% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)  
 \*\*Intake of Ph.D. degree from the academic year 2016-17

#### 6.4.9 ICT Application in Curricula Delivery (2018-19 to 2022-23)

The ICT is now integral part of the teaching programme. College has also promoting the use of ICT in teaching and practical.

Sr. No.	Name of the Department	Name of Degree Programme	Details of ICT tools used for curricula delivery
1	Soil Science	Ph.D. (Agri.)	Online ICAR E-courses, PPT Presentations etc.

- Digitalization through social media i.e. Blog, you-tube, Face book, twitter etc. was developed by Department of Extension Education.
- Internet facilities available for Ph.D. students for assessing research articles, referencing research journals, thesis etc.
- Interactive board available in the lab.
- The ICT is now integral part of the teaching programme.
- ICAR has also promoting the use of ICT in teaching and practical.
- Two LCD projectors available.
- Development of e-content regarding curriculum and upload on e-Agri Diksha.
- Learning Management system (LMS): Google classroom for Ph.D. students.
- Conducted online examination for Ph.D. students.
- Ph.D. classes, Mid Term, Semester End Theory and Practical examination conducted through online mode by using different apps viz., Zoom, Google Classroom, Google Meet, Webex, Google tools during pandemic Covid-19.

#### Android apps

- Plant Nutrition

#### Blog

- [www.pcisss.blogspot.in](http://www.pcisss.blogspot.in)

**Other digital media used**

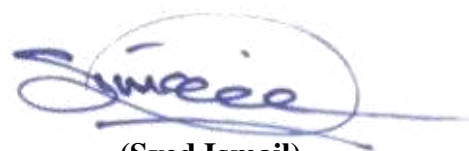
- Google Classroom, WhatsApp etc.

**6.4.10 The information pertaining to 6.4.1 to 6.4.9 is provided for each one of UG, PG and Ph.D. Degree programmes, separately and presented Department wise.**

**6.4.11 Since the accreditation of programmes in related to the All India Admission from ICAR and also having weightage for College Accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.**

**6.4.12 Certificate (Applicable when SSR is submitted for programme)**


I **Dr. Syed Ismail**, Dean, College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section **6.4.1 to 6.4.9** are furnished as per the records available in the Departments.




**(Syed Ismail)**  
**Dean (Agri)**

## Appendix-I

### Ph.D. Students Feedback

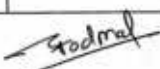


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#### STUDENTS FEEDBACK FORM

1	Name of the Student	Sanjay Machhindra Todmal		
2	Registration No.	2018 A 20 P		
3	Degree and Semester	Ph.D. (Agris)		
4	Name of Department (M.Sc. & Ph.D. Students)	Soil Science and Agri. Chemistry		
5	Departmental Library facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

  
**Students Signature**



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### STUDENTS FEEDBACK FORM

1	Name of the Student	Akshay Jaydeorao Ingole		
2	Registration No.	2018A119P		
3	Degree and Semester	Ph.D. (Agri.)		
4	Name of Department (M.Sc. & Ph.D. Students)	Soil science and Agri. Chemistry		
5	Departmental Library facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
9	Classrooms	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*A Ingole*  
Students Signature





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College of Agriculture, Parbhani

PARBHANI - 431 402 [MAHARASHTRA]

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STUDENTS FEEDBACK FORM

1	Name of the Student	Mangesh Bhade		
2	Registration No.	2016A/27P		
3	Degree and Semester	Ph.D. (Agr.) VII <sup>th</sup> Sem.		
4	Name of Department (M.Sc. & Ph.D. Students)	Soil Science & Soil Chemistry		
5	Departmental Library facilities	<input checked="" type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
6	University Library	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
7	Drinking Water	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
8	Wash Rooms	<input type="checkbox"/> Fully Satisfied	<input type="checkbox"/> Satisfied	<input checked="" type="checkbox"/> Partially Satisfied
9	Classrooms	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
10	Laboratory Facilities	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
11	Research Field	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied
12	Crop Cafeteria	<input type="checkbox"/> Fully Satisfied	<input checked="" type="checkbox"/> Satisfied	<input type="checkbox"/> Partially Satisfied

*Mangesh Bhade*  
Students Signature



VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH

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### 6.5 Self study report for the College

#### 6.5.1 College Administration

##### 6.5.1.1 College Dean's office Establishment:

1. Whether Dean's post has been sanctioned by the appropriate authority as per ICAR

modelact/UGC guidelines. : Yes, Dr. Syed Ismail

2. Date of selection of present Dean : 05 May, 2019

3. Mode of selection : Promotion

4. Tenure : Five years

5. Staff in Dean's secretariat

Total - 33

Assistant Comptroller - 1

Steno - 1

Section Officer - 1

Asstt. Section Officer - 1

Senior Clerk - 4

Agricultural Assistant(s) - 6

Junior Clerk(s) - 8

Lab. Attendant(s) - 2

Peon(s) - 9

6. Infrastructure/facilities available in the Dean's Secretariat

Coumpter with internet facility - 15

Fax machine - 01

Online fees payment facility - Available



### 1. Manpower at Dean's Office

Sr. No.	Name of the Post	No. of Posts
1.	Associate Dean & Principal	01
<b>A. Establishment</b>		
1.	P.A./P.S. to Dean	01
2.	Estate Manager /Officer	01
3.	Assistant Accounts Officer	01
4.	Assistants (one for each AAO)	03
5.	Steno/Computer Operators	05
6.	Driver	01
7.	Farm Manager (Asstt. Prof.)	01** (Agronomy)
8.	Store Keeper	01

Utility services like Wireman/Plumber/Attendants/Messengers, Landscaping and Mechanic are also available

<b>B. Central Instrumentation Laboratory</b>		
1.	Instrumentation Asstt. Engineer/ (Asstt. Professor)	01 (Dr. S.P. Zade, Assistant Professor)
2.	Instrumentation Technician/Lab Asstt.	01 (Dr. S. S. Shilewant Agri. Assistant)
<b>D. Students Welfare</b>		
1.	Physical Education (Asstt. Professor)	01
2.	Attendant	01
<b>E. Hostel Staff</b>		
1.	Warden	01+09
2.	Care taker/Asstt.	04
<b>F. Estate Branch</b>		
1.	Junior Engineer/Asstt. Estate Manager	01
2.	Security Asstt.	01

#### 6.5.1.2 Monitoring Mechanism for Quality Education (Online):

College of Agriculture Parbhani is having an internal quality system with appropriate structure and processes and with enough flexibility to meet the diverse stakeholders, which are required for planning, guiding and monitoring quality assurance and in qualitative activities in the College.

Academic programme is running as per academic calendar circulated by MCAER Pune for efficient conduct of academic programme. Education and examination cell at college is established. Under strong advisory system newly, admitted 20 students of B.Sc.(Hons) Agriculture are allotted to one faculty member. All the academic and scholarship /fellowship correspondence is routed through allotted advisor. Advisor monitors and coordinates academic programme of students. Advisors act as connecting link between students and parents and gives feedback for education internal quality assurance. Mid term, examinations are conducted on 45 to 50% syllabus. External evaluation is carried out in semester end

theory and practical examinations. One research guide is allotted to each M.Sc. and Ph.D. Student. Student Advisory committee finalise course plan and outline of research work for each student. Board of studies approves ORW with necessary suggestion or may suggest new topic for research.

Research guide act as connecting link between student and parents and also gives feedback for M.Sc. and Ph.D. Student internal quality assurance. Mid term examinations are conducted on 40% of syllabus. External evaluation is carried out in semester end theory and practical examinations.

Qualifying examination of M.Sc. and Ph.D. Students is carried out after completion on 80% of credits and qualifying Viva-voce examination with one external examiner from outside University approved by academic council. Thesis evaluation by external examiner from outside University approved by academic council and recommended by DI and Dean. ADP, Head of the Department and Academic In-Charge monitor and coordinate teaching programme of department and College. Academic programme monitoring committee is established for smooth and effective conduct of theory and practical classes.

Effective monitoring of teaching, research and extension across the departments is being conducted. Head of Department and ADP monitor and coordinate teaching programme of department. Education and examination cell at college is working efficiently for conduct of academic programme with zero pendency in scholarships, NTS and other fellowship distribution for UG, PG and Ph.D. Students.

Research guide and student Advisory committee system is working efficiently for smooth conduct of academic activity of PG students. Academic programme monitoring committee facilitating smooth and effective conduct of theory and practical classes. External evaluation system for PG thesis evaluation.

Head of the departments are member of academic, research and extension council. Head of the departments approves technical programme for research programme at university level and promoting need-based research.

**Impact of monitoring on the outcome of the College with reference to students excelling in academics, research and extracurricular activities.**

1. The pass out ratio for M.Sc.(Agri.) and Ph.D.(Agri.) is more than 95%.
2. On an average, more than 70% M.Sc. (Agri.) and Ph.D. (Agri.) pass out students got placement in government and private sector.
3. More than 100 students passed NET Examination conducted by ICAR.
4. Twenty-four students received various awards at International and National level including best thesis award, best poster and best paper award.
5. More than 75 students got award in various National, State, University and ICAR Sports.
6. College students were participated in team, which are Winner and runner in 22 National, State, University and ICAR Sports like Kabaddi, Volleyball, Basketball, Kho-Kho, Table Tennis and other.

#### **6.5.1.3 CC/Board of Studies:**

According to Maharashtra Agricultural Universities (Krishi Vidyapeeths) Statutes, 1990 Statute 9 Constitution of Board of Studies.

1. In accordance with the provisions of section 36 and subject to the approval of the Academic Council and Executive Council, a Board of Studies for a subject or a group of subjects may be constituted by the concerned Faculty. The Board shall consist of following members:
  - I. The Head of the Department is Ex-Officio Chairman.
  - II. Professors in each subject comprised in the Board from each constituent college/department.
  - III. One academic staff member for each subject comprised in the Board; other than Professors to be nominated by the concerned Associate Dean/ Principal from the constituent/affiliated college.
  - IV. One member from amongst the development departments and allied fields related to concerned Board of Studies nominated by the Vice-Chancellor.
  - V. One progressive farmer having specialized knowledge in related subject/s nominated by the Vice-Chancellor.
  - VI. Heads of other SAUs in the state are the members of the BOS.
  - VII. One of the senior faculty members nominated by Registrar act as secretary of BOS.
2. In case the post of the Head of the Department of any subject is not filled in by any reason, the Vice-Chancellor shall nominate a Professor in the subject to act as the Head of the Department.
3. The term of office of the nominated members shall be three years from the date of nomination.



Sr. No.	Year	BOS meeting dates	Recommendations
<b>Department of Agronomy</b>			
1	2018-19	27 <sup>th</sup> , 28 <sup>th</sup> Feb, 2018 01 <sup>st</sup> March, 2018	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
2	2019-20	26 <sup>th</sup> , 27 <sup>th</sup> and 28 <sup>th</sup> Feb, 2019	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
3	2020-21	02 <sup>nd</sup> July, 2020 06 <sup>th</sup> to 08 <sup>th</sup> , Octo. 2020	<ul style="list-style-type: none"> <li>Approval of synopsis of Ph.D. students.</li> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
4	2021-22	23 <sup>rd</sup> , 24 <sup>th</sup> and 25 <sup>th</sup> June, 2021	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
5	2022-23	13 <sup>rd</sup> , 14 <sup>th</sup> and 15 <sup>th</sup> June 2022	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
<b>Department of Genetics and Plant Breeding, Plant Physiology and Seed Science &amp; Technology</b>			
1	2018-19	21 <sup>st</sup> & 22 <sup>nd</sup> Feb., 2018 31 Jan. & 1 <sup>st</sup> Feb. 2019	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
2	2019-20	29 <sup>th</sup> June 2019 2 <sup>nd</sup> Nov. 2019	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
3	2020-21	13 <sup>rd</sup> & 14 <sup>th</sup> July, 2020 4 <sup>th</sup> Dec. 2020	<ul style="list-style-type: none"> <li>Award of Gold medal for PG student from the account ISGPB chapter Parbhani.</li> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
4	2021-22	29 <sup>th</sup> & 30 <sup>th</sup> June, 2021 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. 2021	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
5	2022-23	6 <sup>th</sup> & 7 <sup>th</sup> June, 2022 28 <sup>th</sup> Sept. 2022	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> <li>Revision &amp; Implemetnatin of masters and Doctoral programme syllabi in the SAU of Maharashtra as per therecommendation of ICAR – NCC-BSMA from Academic year-2022-23.</li> </ul>
<b>Department of Agril. Economics</b>			
1	2018-19	26 <sup>th</sup> Sept., 2018	<ul style="list-style-type: none"> <li>Approval of ORW of Ph.D. students.</li> <li>Approval of List of evaluators for Ph.D. (Agri) &amp; M.Sc. (Agri) thesis eveluation.</li> </ul>
2	2019-20	03 <sup>rd</sup> , April, 2019	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>
3	2020-21	16 <sup>th</sup> June, 2020 & 22 <sup>nd</sup> Feb. 2021	<ul style="list-style-type: none"> <li>Approval of ORW of Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> </ul>

			<ul style="list-style-type: none"> <li>Approval to the syllabus and student READY of B.Sc. (Hons.) ABM.</li> <li>Approval of ORW of M.Sc. (Agri.) students.</li> </ul>
4	2021-22	15 <sup>th</sup> July, 2021 & 07 <sup>th</sup> June, 2022	<ul style="list-style-type: none"> <li>Approval of synopsis of Ph.D. students.</li> <li>Change in research guide of one Ph.D. Student.</li> <li>Approval of ORW of Ph.D. students.</li> <li>Approval to BSMA syllabus.</li> </ul>
5	2022-23	28 <sup>th</sup> Sept., 2022 & 24 <sup>th</sup> Jan. 2023	<ul style="list-style-type: none"> <li>Approval of synopsis of Ph.D. students.</li> <li>Approval of synopsis of Ph.D. students.</li> <li>Change in qualification of Asstt. Prof. of Agricultural statistics.</li> </ul>
<b>Department of Agril. Engineering</b>			
1.	2018-19	29 <sup>th</sup> Jan. 2018	<ul style="list-style-type: none"> <li>Finalisation of layout for new syllabus Agril. Engineering, Computer science &amp; Mathematics and responsibility of giving inputs for any clarification/modification in the syllabus was given to respective course teachers.</li> <li>Strengthening &amp; development of laboratories as per V<sup>th</sup> Dean Committee syllabus.</li> </ul>
2	2019-20	05 <sup>th</sup> Aug. 2019	<ul style="list-style-type: none"> <li>Formulation of Committee to finalize the teaching schedule of Mathematics course for B. Sc. (Hons.) Agri/Hort./Forestry and B. Tech. (Biotech.)</li> <li>Establishment of Laboratories at Newly established colleges and facilities in the department of Agricultural Engineering</li> </ul>
3.	2020-21	20 Octo. 2020	<ul style="list-style-type: none"> <li>Preparation of Experiential Learning Module from Agril. Engineering.</li> <li>Preparation &amp; purchase of proposals for models, equipments, instruments for each course as per V Dean Committee.</li> </ul>
4.	2021-22	13 <sup>rd</sup> Aug. 2021	<ul style="list-style-type: none"> <li>Acceptance of proposal for One Year Diploma Course on Micro Irrigation based on ITI.</li> <li>Requirement of academic and technical staff</li> <li>Addition of Computer Science in BOS of Agril. Engineering.</li> </ul>
5.	2022-23	24 <sup>th</sup> July, 2022	<ul style="list-style-type: none"> <li>Use of equipments &amp; laboratories in COAET, Parbhani for conducting practical of courses for which facilities not available in the department.</li> </ul>
<b>Department of Agril. Entomology</b>			
1	2018-19 2019-20	28 <sup>th</sup> Aug. 2018	<ul style="list-style-type: none"> <li>Presentation &amp; Approval of synopsis of Ph.D. students.</li> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D. students. Admitted in 2017.</li> <li>Approval of List of Examiner's for Thesis Evaluation &amp; Viva – voce of M.Sc. &amp; Ph.D. students.</li> </ul>
		4 <sup>th</sup> July, 2018	<ul style="list-style-type: none"> <li>Presentation &amp; Approval of synopsis of Ph.D. students.</li> <li>Approval of ORW's of M.Sc. (Agri) students.</li> </ul>
		27 <sup>th</sup> Feb. 2019	<ul style="list-style-type: none"> <li>Presentation &amp; Approval of Synopsis of Ph.D.</li> </ul>

			students
2	2020-21	06 <sup>th</sup> June, 2020	<ul style="list-style-type: none"> <li>▪ Presentation &amp; Approval of ORW of Ph.D.students admitted in 2018-19</li> <li>▪ Approval of ORW of M.Sc. (Agri) students admitted in 2018-19</li> </ul>
		19 <sup>th</sup> June, 2020	<ul style="list-style-type: none"> <li>▪ Presentation &amp; Approval of Synopsis of Ph.D. students.</li> <li>▪ Approval for the proposal of Recognition of P.G. Research Guide.</li> <li>▪ Approval of biofucation of Entomology &amp; Nematology Deptt.</li> <li>▪ Establishment of Entomology Society of India Parbhani Chapter.</li> </ul>
		01 <sup>st</sup> Jan., 2021	<ul style="list-style-type: none"> <li>▪ Presentation of Approval of Synopsis of Ph.D. students.</li> <li>▪ Approval of ORW'S of M.Sc. (Agri) student admitted 2019-20.</li> </ul>
3	2021-22	29 <sup>th</sup> & 30 <sup>th</sup> June, 2021	<ul style="list-style-type: none"> <li>▪ Presentation &amp; Approval of Synopsis of Ph.D. Student.</li> <li>▪ Approval of ORW'S of M.Sc. (Agri) &amp;Ph.D. students Admitted in 2020-21.</li> <li>▪ Regarding allotment of M.Sc. students as Research Guide as per jurisdiction.</li> </ul>
		11 <sup>th</sup> Octo., 2021	<ul style="list-style-type: none"> <li>▪ Regarding diploma course of sericulture (one year) on ITI basis.</li> </ul>
		28 <sup>th</sup> & 29 <sup>th</sup> June, 2022	<ul style="list-style-type: none"> <li>▪ Approval of course plan work of M.Sc. (Agri) &amp;Ph.D.</li> </ul>
4	2022-23	26 <sup>th</sup> Sept. 2022	<ul style="list-style-type: none"> <li>▪ Presentation &amp; Approval of Synopsis of Ph.D. Student</li> <li>▪ Discussion on implementation of M.Sc.&amp;Ph.D. syllabus per BSMA</li> </ul>
<b>Department of Agril. Meteorology</b>			
1	2018-19	27,28 Feb. to 01st March 2018	<ul style="list-style-type: none"> <li>▪ Approval of ORW of M.Sc.(Agri) students.</li> </ul>
2	2019-20	26, 27 & 28 Feb. 2019	<ul style="list-style-type: none"> <li>▪ Approval of ORW of M.Sc.(Agri) students.</li> </ul>
3	2020-21	02 July 2020 and on 08 Oct 2020	<ul style="list-style-type: none"> <li>▪ Approval of ORW of M.Sc.(Agri) students.</li> </ul>
4	2021-22	23, 24 & 25 June 2021	<ul style="list-style-type: none"> <li>▪ Approval of ORW of M.Sc.(Agri) students.</li> <li>▪ Approval for PhD Programme and syllabus</li> </ul>
5	2022-23	13, 14 & 15 June 2022	<ul style="list-style-type: none"> <li>▪ Approval of ORW of M.Sc.(Agri) students.</li> </ul>
<b>Department of Animal Husbandry &amp; Dairy Science</b>			
1	2018-19	07th & 8th March 2018	<ul style="list-style-type: none"> <li>▪ Approval of ORW of M.Sc. and Ph.D. students and approval of research synopsis of Ph.D.</li> </ul>
2	2019-20	27th & 28th Feb.2019& 31st Aug.2019	<ul style="list-style-type: none"> <li>▪ Approval of ORW of M.Sc. and Ph.D. students and approval of research synopsis of Ph.D.</li> <li>▪ Approval of ORW of M.Sc. and Ph.D. students. Purchase of buffaloes for strengthening at dairy unit.</li> </ul>

3	2020-21	29 <sup>th</sup> June 2020 23 <sup>rd</sup> & 24 <sup>th</sup> Dec. 2020	<ul style="list-style-type: none"> <li>Approval of Ph.D. research synopsis action on PAP contractors.</li> <li>Separate seniority list for the post of Assistant professor and Associate professor in discipline of veterinary science.</li> </ul>
4	2021-22	24th Aug.2021 8th Feb.2022	<ul style="list-style-type: none"> <li>Approval of research synopsis of Ph.D. students.</li> <li>Conduct meeting for accreditation of PG &amp; Ph.D. programme in discipline of AHDS.</li> <li>Approval of ORW of M.Sc. and Ph.D. students.</li> </ul>
5	2022-23	14th June 2022, 29 <sup>th</sup> Aug. 2022, 27 <sup>th</sup> Dec.2022	<ul style="list-style-type: none"> <li>Application form for recognition of PG teacher S.S. Deshmukh &amp; Ph.D. teacher D.V. Bainwad.</li> <li>Approval of research synopsis of Ph.D. (Agri.) students.</li> <li>Approval of syllabus of PG &amp; Ph.D. as per BSMA/ ICAR.</li> <li>Approval of ORW of M.Sc. and Ph.D. students and approval of research synopsis of Ph.D.</li> </ul>
<b>Department of Agril. Extension Education</b>			
1	2018-19	15 <sup>th</sup> Feb., 2018 27-28 Aug, 2018	<ul style="list-style-type: none"> <li>Approval of minutes of meeting</li> <li>Approval of synopsis</li> <li>Shifting of PG master credit seminar to III semester Post facto approval of Panel list of experts</li> <li>Approval of minutes of meeting</li> <li>Approval of synopsis</li> </ul>
2	2019-20	22 <sup>nd</sup> Feb. 2019 11-12 Sept. 2019	<ul style="list-style-type: none"> <li>Approval of minutes of meeting</li> <li>Approval of synopsis</li> <li>Approval of minutes of meeting</li> <li>Approval of ORW</li> </ul>
3	2020-21	26 <sup>th</sup> June, 2020 20-21 Oct , 2020	<ul style="list-style-type: none"> <li>Approval of minutes of meeting</li> <li>Approval of synopsis</li> <li>Post facto approval of Panel list of experts</li> <li>Approval of minutes of meeting</li> <li>Approval of ORW</li> <li>Recognition of Research Guide of Cat- III</li> </ul>
4	2021-22	29-30 June, 2021 11-12 Jan, 2022	<ul style="list-style-type: none"> <li>Approval of minutes of meeting</li> <li>Approval of synopsis</li> <li>Approval of ORW</li> <li>Approval of minutes of meeting</li> <li>Approval of synopsis/ ORW</li> </ul>
5	2022-23	23-24 Aug, 2022 29 Dec, 2022	<ul style="list-style-type: none"> <li>Approval of minutes of meeting</li> <li>Approval of synopsis &amp; ORW</li> <li>Change in nomenclature of degree programme as per BSMA</li> <li>Approval of Panel list of experts</li> <li>Approval of minutes of meeting</li> <li>Approval of synopsis</li> </ul>
<b>Department of Horticulture</b>			
1	2018-19	28 <sup>th</sup> Sep. &	<ul style="list-style-type: none"> <li>Approval of ORW of M.Sc. (Agri.) and Ph.D.</li> </ul>

		29 <sup>th</sup> Sep. 2018	students. ■ Approval of synopsis of Ph.D. students.
2	2019-20	28 <sup>th</sup> Feb. & 1 <sup>st</sup> March 2019	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval of synopsis of Ph.D. students.
3	2020-21	11 <sup>th</sup> Aug. to 14 <sup>th</sup> Aug. 2020	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval of synopsis of Ph.D. students.
4	2021-22	11 <sup>th</sup> May & 12 <sup>th</sup> May 2021 13 <sup>th</sup> & 14 <sup>th</sup> Jan. 2022	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval of synopsis of Ph.D. students.
5	2022-23	15 <sup>th</sup> to 17 <sup>th</sup> June 2022	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval of synopsis of Ph.D. students.
<b>Department of Plant Pathology</b>			
1	2018-19	22-23 Feb 2018 & 28 April 2018	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval of synopsis of Ph.D. students.
2	2019-20	1-2 March 2019	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ All the members of BOS have approved the revised name of Department of Plant Pathology in Marathi as “वनस्पतिरोगशास्त्रविभाग” instead of “वनस्पतिविकृतीशास्त्रविभाग”
3	2020-21	11 & 29 March 2020, 29 May 2020, 21 July 2020, 28-30 Dec. 2020	■ Approval of synopsis of Ph.D. students. ■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students.
4	2021-22	21-23 Jan. 2021 & 28-29 Jan. 2021	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students.
5	2022-23	28-29 June, 2022	■ Approval of synopsis of Ph.D. students. ■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval to implement of ICAR-NCG-BSMA committees approved new curriculum restructured and revised Masters PG Academic Regulations of Plant Pathology.
<b>Department of Soil Science</b>			
1	2018-19	17 <sup>th</sup> July, 2018	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval of synopsis of Ph.D. students.
2	2019-20	25 <sup>th</sup> & 26 <sup>th</sup> April, 2019 06 <sup>th</sup> Jan., 2020	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval of synopsis of Ph.D. students.
3	2020-21	5 <sup>th</sup> Aug., 2020 28 <sup>th</sup> & 29 <sup>th</sup> Sept., 2020	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval of synopsis of Ph.D. students.
4	2021-22	2 <sup>nd</sup> & 3 <sup>rd</sup> June, 2021 5 <sup>th</sup> Oct., 2021	■ Approval of ORW of M.Sc. (Agri.) and Ph.D. students. ■ Approval of synopsis of Ph.D. students.



5	2022-23	6 <sup>th</sup> & 7 <sup>th</sup> June, 2022 15 <sup>th</sup> Feb., 2023	<ul style="list-style-type: none"><li>▪ Approval of ORW of M.Sc. (Agri.) and Ph.D. students.</li><li>▪ Approval of synopsis of Ph.D. students.</li><li>▪ Discussion of new Syllabi of Master and Doctoral degree program as per ICAR –BSMA and degree nomenclature.</li><li>▪ Post Facto Approval of New Syllabi of Master and Doctoral degree program as per ICAR – BSMA and changes in degree nomenclature as Soil Science.</li></ul>
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**6.5.1.4 Anti Ragging Cell:**

In pursuance to the Judgement of the Hon. Supreme Court of India dated 08-05-2009 in Civil Appeal No. 887/2009, the University Grants Commission has framed UGC Regulations on curbing the menace of ragging in higher educational institutes which has notified on 4<sup>th</sup> July, 2009 in the Gazette of India.

1. In accordance with the provisions made under University Statutes 1990, a student while studying in the College if allegedly found involving in the activities like ragging, bullying or kidnapping and any other act of indiscipline shall immediately be suspended from the College as well as the Hostel without any notice by the Principal /Associate Dean of the College and liable to be expelled from the College by the Vice-Chancellor on the detailed report of the Director of Instruction of the University, as per the instructions of the Dy. Director General (Education), ICAR, New Delhi vide No.6(29)/2007-A and P. Dt.18.01.2008 regarding the directives issued by the Hon.ble Supreme Court of India on Special Leave to appeal (C)(24295 & 24296-99 of 2004) vide judgment dt. 10.12.2007 and also vide letter No. AGU-2009/pa.kra.58/7-A Dt. 06.05.2009 from Dept. of Agriculture, Animal Husbandry, Dairy Development and Fisheries, Mantralaya Mumbai.
2. Student shall abide by the rules & regulations enforced and approved by the State Council.
3. Any kind of indiscipline and misbehaviour leading to ragging activities is an offence punishable under the provisions of Anti Ragging Act. 1999.
4. Anti Ragging Act: In case of ragging, 24x7 Anti ragging help line contact toll free no.1800-180-5522, Email:helpline@antiragging.net and website: <http://www.ugc.ac.in>
5. Each student and his parent /guardian shall have to furnish an undertaking in Appendix 'O' to follow scrupulously the provisions of Anti Ragging Act, 1999 and ensure that absolute discipline is maintained in the premises of educational institute, Hostel campus and University campus etc.

**Anti Ragging committee**

<b>1</b>	<b>Total Incidence happened</b>	<b>Nil</b>
<b>2</b>	<b>Action Taken</b>	<b>Nil</b>

<b>2018-19</b>		
<b>Sr. No.</b>	<b>Name of the Member</b>	<b>Chairman /Member</b>
1	Dr. D.N. Dhutraj, HOD, Plant Pathology	Chairman
2	Dr. P.R.Zanwar, HOD, Agril. Entomology	Vice-Chairman
3	Dr. R.G. Bhagyawant, Asso. Prof. of Agril. Engineering	Member
4	Dr. K.D. Navgire, Asso. Prof. of Plant Pathology	Member
5	Dr. R.P. Kadam, Asstt. Prof. of Extension Edn.	Member
6	Dr. S.S. More, Asstt. Prof. of Agril. Economics	Member
7	Dr. P.S. Kapse, Asstt. Prof. of Extension Edn.	Member
8	Dr. M.P. Jagtap, Asstt. Prof. of Agronomy	Member
9	Shri. S.A. Hiwrale, Asstt. Comptroller, Representative of non teaching staff	Member
10	Miss. S.B. Bedre, Representative of non teaching staff	Member
11	Miss. Ankita Joshi, Representative of Girls students(Fresher)	Member
12	Miss. Arti Shikari, Representative of Girls students(Senior)	Member
13	Shri. Dnyaneshwar Shinde, Representative of Boys students(Fresher)	Member
14	Shri. Krushna Uphad, Representative of Boys students (Senior)	Member
15	Prof. Arun Baliram Padghan, Representative from parents	Member
16	Shri. Dnyndev Kadam, Representative from parents	Member
17	Shri. N.B. Thakur , Police Sub Inspector , Nawa Mondha, Representative of Police department	Member
18	Dr. K.T. Apet, Asso. Prof. of Plant Pathology	Member Secretary
	Incidence happened	Nil
	Action Taken	Nil

<b>2019-20</b>		
<b>Sr. No.</b>	<b>Name of the Member</b>	<b>Chairman/Member</b>
1	Dr. K.T.Apet, Professor & HOD, Plant Pathology	Chairman
2	Dr. K.D. Navgire, Asso. Prof. , Plant Pathology	Vice-Chairman
3	Dr. S.R. Jakkawad, Asso. Prof. of Extension Edn.	Member
4	Dr. P.S. Kapse, Asstt. Prof. of Extension Edn.	Member
5	Dr. M.P. Wankhade, Asstt. Prof. of Agril. Botany	Member
6	Shri. R.B. Deshmukh, Asstt. Comptroller, Representative of non-teaching staff	Member
7	Miss. A.U. Bedre, Representative of non-teaching staff	Member
8	Miss. Lagad Jyoti, Representative of Girls students(Fresher)	Member
9	Miss. Arti Kubde, Representative of Girls students(Senior)	Member
10	Shri. Gaurav Gaikwad, Representative of Boys students(Fresher)	Member
11	Shri. Anil Yeshe, Representative of Boys students(Senior)	Member
12	Shri. Govardhan Chavan, Representative from parents	Member
13	Shri. Keshevrao Lagad, Representative from parents	Member

14	Shri. R.S, Tat , Police Sub Inspector , Nawa Mondha, Representative of Police department	Member
15	Dr. P.R. Zanwar, Asso. Prof. of Agril. Entomology	Member Secretary
	Incidence happened	Nil
	Action Taken	Nil

<b>2020-21</b>		
<b>Sr. No.</b>	<b>Name of the Member</b>	<b>Chairman /Member</b>
1	Dr. K.T.Apet, Professor & HOD, Plant Pathology	Chairman
2	Dr. K.D. Navgire, Asso. Prof. , Plant Pathology	Vice-Chairman
3	Dr. S.R. Jakkawad, Asso. Prof. of Extension Edn.	Member
4	Dr. P.S. Kapse, Asstt. Prof. of Extension Edn.	Member
5	Dr. M.P. Wankhade, Asstt. Prof. of Agril. Botany	Member
6	Shri. R.B. Deshmukh, Asstt. Comptroller, Representative of non-teaching staff	Member
7	Miss. A.U. Bedre, Representative of non-teaching staff	Member
8	Miss. Lagad Jyoti, Representative of Girls students (Fresher)	Member
9	Miss. Arti Kubde, Representative of Girls students (Senior)	Member
10	Shri. Gaurav Gaikwad, Representative of Boys students (Fresher)	Member
11	Shri. Anil Yeshe, Representative of Boys students (Senior)	Member
12	Shri. Govardhan Chavan, Representative from parents	Member
13	Shri. Keshevrao Lagad, Representative from parents	Member
14	Shri. R.S, Tat , Police Sub Inspector , Nawa Mondha, Representative of Police department	Member
15	Dr. P.R. Zanwar, Asso. Prof. of Agril. Entomology	Member Secretary
	Incidence happened	Nil
	Action Taken	Nil

<b>2021-22</b>		
<b>Sr. No.</b>	<b>Name of the Member</b>	<b>Chairman /Member</b>
1	Dr. K.T.Apet, Professor & HOD, Plant Pathology	Chairman
2	Dr. K.D. Navgire, Asso. Prof. , Plant Pathology	Vice-Chairman
3	Dr. S.R. Jakkawad, Asso. Prof. of Extension Edn.	Member
4	Dr. P.S. Kapse, Asstt. Prof. of Extension Edn.	Member
5	Dr. M.P. Wankhade, Asstt. Prof. of Agril. Botany	Member
6	Shri. R.B. Deshmukh, Asstt. Comptroller, Representative of non-teaching staff	Member
7	Miss. A.U. Bedre, Representative of non-teaching staff	Member
8	Miss. Lagad Jyoti, Representative of Girls students (Fresher)	Member
9	Miss. Arti Kubde, Representative of Girls students (Senior)	Member
10	Shri. Gaurav Gaikwad, Representative of Boys students (Fresher)	Member
11	Shri. Anil Yeshe, Representative of Boys students (Senior)	Member
12	Shri. Govardhan Chavan, Representative from parents	Member
13	Shri. Keshevrao Lagad, Representative from parents	Member
14	Shri. R.S, Tat , Police Sub Inspector , Nawa Mondha, Representative of Police department	Member
15	Dr. P.R. Zanwar, Asso. Prof. of Agril. Entomology	Member Secretary
	Incidence happened	Nil
	Action Taken	Nil

<b>2022-23</b>		
<b>Sr. No.</b>	<b>Name of the Member</b>	<b>Chairman /Member</b>
1	Dr. G.M. Waghmare, Head, Deptt. of Horticulture	Chairman
2	Dr. S.G. Narwade, Asso. Prof., AHDS	Vice-Chairman
3	Dr. S.S. Gosalwad Asso. Prof. of Agril. Entomology	Member
4	Dr. D.V. Bainwad, Asso. Prof. of AHDS	Member
5	Dr. M.P. Wankhade, Asstt. Prof. of Agril. Botany	Member
6	Dr. J.D. Deshmukh, Asstt. Prof. of Agril. Botany	Member
7	Prof. G.N. Gote, Asstt. Prof. of Agril. Meteorology	Member
8	Dr. R.B. Deshmukh, Asstt. Comptroller, Representative of non teaching staff	Member
9	Mrs. A.U. Bedre, Representative of non teaching staff	Member
10	Mis. Deshmukh Sneha Vishal, Representative of Girls students (I sem.)	Member

11	Miss. Lagad Jyoti, Representative of Girls students (VIII sem.)	Member
12	Shri.Goradwar Vijay Rajeshwar, Representative of Boys students (I sem.)	Member
13	Shri. A.O.Maske, Representative of Boys students (VIII sem.)	Member
14	Mrs. K.N. Wadkute, Representative from parents	Member
15	Shri. P.K. Kale, Representative from parents	Member
16	Shri. S.S. Shelke, Police Sub Inspector , Nawa Mondha, Representative of Police department	Member
17	Dr. A.M. Bhosale, Asstt. Prof. of Horticulture	Member Secretary
	Incidence happened	Nil
	Action Taken	Nil

**Disciplinary Committee**

Sr. No.	Name of the Members	Chairman/Member
1	Dr. P.H. Vaidya, Head, Deptt. of SSAC	Chairman
2	Dr. V.M. Gholve Asso. Prof., Plant Pathology	Vice-Chairman
3	Er. R.V. Jaybhaye, Asso. Prof. of Agril. Engineering	Member
4	Dr. S.R. Pillewad, Asstt. Prof. SSAC	Member
5	Dr. S.U. Pawar, Asstt. Prof. of Agronomy	Member
6	Dr. D.G. Dalvi, Asstt. Prof. of Agril. Botany	Member
7	Dr. N.S. Kamble, Asstt. Prof. of AHDS	Member
8	Dr. B.R Gajbhiye, Asstt. Prof. of SSAC	Member Secretary

The committee will follow usual procedure of discipline and suggest quantum of punishment on the basis of nature of disciplinary and misconduct acts. The committee will also find reasons for untoward incidence, involvement of students in anti-social activities etc. The committee should submit detail report to the undersigned.

**Committee for Prevention and Control of Ragging**

Sr. No.	Name of the Member	Chairman/Member
1	Dr. W.N. Narkhede, Head, Agronomy	Chairman
2	Dr. S.S. Gosalgwad, Asstt. Prof. of Agril. Entomology	Vice –Chairman
3	Dr. M.M. Sonkamble, Asstt. Prof. of Agril. Entomology	Member
4	Dr. D.K. Zate, Asstt. Prof. of Agril. Botany	Member
5	Prof. A.M. Bhosale, Asstt. Prof. of Horticulture	Member
6	Prof. S.U. Pawar, Asstt. Prof. of Agronomy	Member
7	Dr. S.G. Narwade, Asso. Prof. of AHDS	Member Secretary



In addition to above members, Assistant Hostel Wardens, Asstt. Professors of Physical Education, NSS/NCC Programme Officers will act as members of the Committee.

The above committee will arrange the counseling of students and will make aware about the provisions of punishments as per the guidelines given by the Hon. Supreme Court and UGC amended from time to time. Further the committee will publish and notify the literature to avoid ragging, conduct students workshop for anti ragging awareness , paste wall papers, information bulletins regarding anti ragging in Libraries , canteen , toilets and such places where student can gather. Committee will also make provisions for CCTV camera at important places where ragging can occur.

#### **6.5.1.5 Biological waste disposal facility:**

Wastes (chemical, biological and recyclable) are generated by a variety of research. Maintenance and cleaning operations, at the College level the disposal mechanism is adopted as per the government guidelines.

Agriculture College, Parbhani having Vasantrya Naik Garden premises and various departments where on field, huge quantity of biomass is generated in terms of weed, residue, green biomass etc. The Department of Soil Science & Agricultural Chemistry having compost preparation yard. It consists of eight tanks with 12' X 4.5' X 2.5' dimension with 1 ton capacity each for disposal of biomass and generation of compost which is rich in manurial value. The compost generated is used for college garden, supplied on demand to various departmental experiments as per their requirement for research projects and also being sold to the farmers on demand.

#### **6.5.1.6 Institutional Ethics Committee for Experiment on Animals:**

Department of Animal Husbandry and Dairy Science, College of Agriculture Parbhani is following CPCSEA guidelines and constituted Institutional Animal Ethics Committee (IAEC), get their animal's house facilities inspected and projects cleared by CPCSEA and IAEC before commencing them. The College is adhering all guidelines in the matter.

**6.5.1.7 Committee for Prevention of Sexual Harassment of Women at work places:**

College of agriculture Parbhani is strictly adhering the prevention of sexual harassment of women at workplace (prevention Prohibition and Redressal Act 2013) in letter and spirit.

**Constitution of sexual harassment committees and date of proceeding conducted in last five years in tabular form.**

**Sexualharassment Committee**

<b>Incidence happened</b>	<b>Nil</b>
<b>Action Taken</b>	<b>Nil</b>

<b>Sr. No.</b>	<b>Name</b>	<b>Chairman / Member</b>
<b>2018-19 to 2021- 22</b>		
1	Dr. J.V. Ekale, Asso. Pro, Dept. of Extension Edn	Chairman
2	Dr. P.R. Deshmukh, Asso. Pro, Dept. of Extension Edn	Co - Chairman
3	Dr. S.L. Waikar, Asstt. Prof. of SSAC	Member
4	Mrs. A.K. Zote, SRA, Agronomy	Member
5	Shri. K.D. Jawale, Agril. Asstt. (ADP Office)	Member
6	Shri. E.D. Ghyar, Agril. Asstt. (ADP Office)	Member
7	Dr. M.W. Jagtap, Asstt. Prof. of Agronomy	Member Secretary

<b>Sr. No.</b>	<b>Name</b>	<b>Chairman / Member</b>
<b>2022 -23</b>		
1	Dr. Godavari Pawar, Asso. Prof, Dept. of Agril. Botany	Chairman
2	Dr. Prashant Deshmukh, Asso. Pro, Dept. of Extension Edn.	Co - Chairman
3	Dr. Suresh Waikar, Asstt. Prof. of SSAC	Member
4	Dr. Megha Jagtap, Asstt.Prof. of Agronomy	Member
5	Dr. Anuradha Lad, Asstt. Prof of Ext. Education	Member
6	Shri. Krishna Jawale, Agril. Asstt. (ADP Office)	Member
7	Shri. Bhalchndra Jadhav, Sr. Clerk (ADP Office)	Member
8	Dr. Snehal Shilewant, Agril. Asstt. (SSAC	Member
9	Dr. Meena Wankhade, Asstt. Prof. of Agril. Botany	Member Secretary

**6.5.2 Faculty**

The details of the faculty position for B.Sc. (Agril.), M.Sc. and Ph.D. Degree Programme are mentioned as under.

**6.5.2.1. Faculty strength (2019-20 to 2022-23)****Faculty position for College of Agriculture, VNMKV, Parbhani**

Sr. No	Year	Sanctioned faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR for 60 intake (college has 210 intake)	Deviation**
1	2018-19	AD&P	01	00	01	100
		Head	07	03	-	30
		Professor	03	07	03	100
		Associate Professor	25	27	08	312.5
		Assistant Professor	37	20	34	108.82
2	2019-20	AD&P	01	00	01	100
		Head	10	00	-	00
		Professor	07	03	03	233.33
		Associate Professor	22	30	08	275
		Assistant Professor	40	17	34	117.65
3	2020-21	AD&P	01	00	01	100
		Head	08	02	-	20
		Professor	08	02	03	266.67
		Associate Professor	20	32	08	250
		Assistant Professor	41	16	34	120.59
		Assistant Professor (Adhoc)	11	11	-	50
4	2021-22	AD&P	01	00	01	100
		Head	07	03	-	30
		Professor	08	02	03	266.67
		Associate Professor	25	27	08	312.5
		Assistant Professor	34	23	34	100
		Assistant Professor (Adhoc)	11	11	-	50
5	2022-23	AD&P	00	01	01	00
		Head	06	04	-	40
		Professor	09	01	03	300
		Associate Professor	27	25	08	337.5
		Assistant Professor	38	19	34	111.76
		Assistant Professor (Adhoc)	11	11	-	50

In addition to the staff at college level by the of order of university authorities assistance from adjunct faculty at Research /Extension is taken as per the requirement and also contractual staff as teaching associate has been appointed to fulfil the requirement of UG/PG education. The contractual staff appointed fulfils the eligibility criteria required for appointment as assistant professor. The details of such faculty is mentioned in the following table.

**Present Academic Staff in the Department (Research / Extension/ Contractual)**

Sr. No.	Name	Designation	Degree	Department
<b>Department of Agronomy</b>				
1	Dr. G.D. Gadade	Asso. Professor.	Ph.D. (Agri.)	ATIC, VNMKV, Parbhani
2	Dr. S.P. Kausalye	Asstt. Professor	Ph.D. (Agri.)	UPRS, VNMKV, Parbhani
3	Mrs. P.O. Bhutada	Asstt. Professor	M.Sc. (Agri.)	Sorghum Research Station, VNMKV, Parbhani
4	Dr. S.A. Shinde	Asstt. Professor	Ph.D. (Agri.)	AICRP on Safflower, VNMKV, Parbhani
5	Mr. S. P. Chenalwad	Asstt. Professor	M.Sc.(Agri.) NET	AICRP on IFS, VNMKV, Parbhani
6	Dr.Thombre S.V.	Assistant Professor (Adhoc)	Ph.D. (Agri.)	Agronomy
7	Dr. Nanher A.H	Assistant Professor (Adhoc)	Ph.D. (Agri.)	Agronomy
<b>Department of Genetics and Plant Breeding, Plant Physiology and Seed Science &amp; Technology</b>				
1	Dr. S.B. Ghuge,	Asso. Professor	Ph.D. (Agri.)	I/C, Safflower Research Station, Parbhani
2	Dr. D.K. Zate	Asstt. Professor	Ph.D. (Agri.)	College of Agriculture, Parbhani
3	Dr. A.M. Misal	Asstt. Professor	Ph.D. (Agri.)	ADR Seed, VNMKV, Parbhani
4	Dr. A.B. Jadhav	Asstt. Professor	Ph.D. (Agri.)	Assoc. Director (Seed), VNMKV, Parbhani
5	Dr. S.B. Borgaonkar	Asstt. Professor	Ph.D. (Agri.)	CRS, Parbhani
6	Dr. Sandip Shinde	SRA	Ph.D. (Agri.)	Assoc. Director (Seed), VNMKV, Parbhani
<b>Department of Agricultural Economics</b>				
1	Dr. R.F. Thombre	Asstt. Prof.	Ph.D. (Agri.)	College of Agriculture, Golegaon
2	Dr. G.D. Rede	Assistant Professor (Adhoc)	Ph.D. (Agri.)	Agril. Economics
3	Dr. T.B. Mundhe	Assistant Professor (Adhoc)	Ph.D. (Agri.)	Agril. Economics
4	Mr. S.V. Bharti	Assistant Professor (Adhoc)	M.Sc. (Stat.)	Agril. Economics

<b>Department of Animal Husbandry &amp; Dairy Science</b>				
1	Dr. D. S. Chauhan	Senior Scientist	Ph.D. (Agri.)	Cattle Cross Breeding Project
2	Dr. P. V. Padghan	Senior Scientist	Ph.D. (Agri.)	Cattle Cross Breeding Project
3	Dr. R. V. More	Assistant Professor (Adhoc)	Ph.D. (Agri.)	College of Agriculture, Parbhani
4	Dr. S. S. Shinde	Assistant Professor (Adhoc)	Ph.D. (Agri.)	College of Agriculture, Parbhani
<b>Department of Horticulture</b>				
1	Dr. V.G. Magar	Assistant Professor (Adhoc)	Ph.D. (Agri.)	Vegetable Science
2	Dr. K.B. Palepad	Assistant Professor (Adhoc)	Ph.D. (Agri.)	Fruit Science
3	Dr. A.S. Gormade	Assistant Professor (Adhoc)	Ph.D. (Agri.)	Floriculture & Landscaping Architecture
<b>Department of Agril. Extension Education</b>				
1	Dr Bhise MV	Assistant Professor (Adhoc)	Ph.D. (Agri.)	Dept. of Agril. Extn. Education
<b>Department of Plant Pathology</b>				
1	Dr. C.V. Ambadkar	Asstt. Professor	Ph.D. (Agri.)	Safflower Pathologist & DoPP
2	Dr. M.G. Patil	Asstt. Professor	Ph.D. (Agri.)	ASRO9STRU) & DoPP
<b>Department of Soil Science</b>				
1.	Dr. G. R. Hanwate	Asso. Professor	Ph.D. (Agri.)	AICRP on Dryland Agriculture, VNMKV, Parbhani
2.	Dr. A.L. Dhamak	Asso. Professor	Ph.D. (Agri.)	AINP on SBB, VNMKV, Parbhani
3.	Dr. R.N. Khandare	Asstt. Professor	Ph.D. (Agri.)	AICRP on LTFE, VNMKV, Parbhani
4.	Dr. G. K. Gaikwad	Asstt. Professor	Ph.D. (Agri.)	AICRP on Water Management, VNMKV, Parbhani
5.	Dr. S. T. Shirale	Asstt. Professor	Ph.D. (Agri.)	AICRP on IFS, VNMKV, Parbhani
6.	Dr. Papita H. Gaurkhede	Asstt. Professor	Ph.D. (Agri.)	AICRP on Dryland Agriculture, VNMKV, Parbhani



**6.5.2.2 Faculty Profile (Department wise)**

The Details of the department wise UG/PG and Ph.D. Faculty Profile of academic staff members are given as under.

**UG/PG and Ph.D. Faculty Profile of academic staff members**

Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>1. Department of Agronomy</b>						
1	2018-19	Head	1	--	01	-
2		Professor	1	01	--	-
3		Associate Professor	3	04	01	No
4		Assistant Professor	5	05	02	No
1	2019-20	Head	1	01		-
2		Professor	1	--	01	-
3		Associate Professor	4	03	02	No
4		Assistant Professor	4	05	02	No
1	2020-21	Head	1	01	--	No
2		Professor	1	-	01	No
3		Associate Professor	3	03	02	No
4		Assistant Professor	4	05	02	No
1	2021-22	Head	1	01		No
2		Professor	1	-	01	No
3		Associate Professor	3	03	02	No
4		Assistant Professor	7	05	02	No
1	2022-23	Head	1	01	--	No
2		Professor	1	--	01	No
3		Associate Professor	4	03	02	No
4		Assistant Professor	5	05	02	No

Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>2. Department of Genetics and Plant Breeding, Plant Physiology and Seed Science &amp; Technology</b>						
1	2018-19	Head	1	1	--	-
2		Professor	1	--	1	-
3		Associate Professor	6	1	5	No
4		Assistant Professor	6	5	1	No
1	2019-20	Head	1	1	--	-

2		Professor	1	--	1	-
3		Associate Professor	6	1	5	No
4		Assistant Professor	6	4	2	No
1	2020-21	Head	1	1	--	-
2		Professor	1	--	1	-
3		Associate Professor	6	2	4	No
4		Assistant Professor	6	4	2	No
1	2021-22	Head	1	1	--	-
2		Professor	1	--	1	-
3		Associate Professor	6	3	3	No
4		Assistant Professor	6	5	1	No
1	2022-23	Head	1	1	--	-
2		Professor	1	1	--	-
3		Associate Professor	6	3	3	No
4		Assistant Professor	6	6	--	No

Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>3. Department of Animal Husbandry &amp; Dairy Science</b>						
1	2018-19	Head	1	01	-	-
2		Professor	1	01	-	-
3		Associate Professor	5	01	04	No
4		Assistant Professor	7	02	05	No
1	2019-20	Head	1	01	-	-
2		Professor	1	01	-	-
3		Associate Professor	5	01	4	No
4		Assistant Professor	7	02	5	No
1	2020-21	Head	1	01	-	-
2		Professor	1	01	-	-
3		Associate Professor	5	02	3	No
4		Assistant Professor	7	04	3	No
1	2021-22	Head	1	01	-	-
2		Professor	1	01	-	-
3		Associate Professor	5	03	2	No
4		Assistant Professor	7	03	4	No
1	2022-23	Head	1	01	-	-
2		Professor	1	01	-	-
3		Associate Professor	5	03	2	No
4		Assistant Professor	7	03	4	No

Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>4. Department of Agril. Economics</b>						
1	2018-19	Head	1	01	--	-
2		Professor	1	01	--	-
3		Associate Professor	5	02	03	No
4		Assistant Professor	2	01	01	No
1	2019-20	Head	1	01	--	-
2		Professor	1	01	--	-
3		Associate Professor	5	02	03	No
4		Assistant Professor	2	01	01	No
1	2020-21	Head	1	01	--	-
2		Professor	1	01	--	-
3		Associate Professor	5	02	03	No
4		Assistant Professor	2	01	01	No
1	2021-22	Head	1	--	01	-
2		Professor	1	01	--	-
3		Associate Professor	5	02	03	No
4		Assistant Professor	2	--	02	No
1	2022-23	Head	1	--	01	-
2		Professor	1	01	--	-
3		Associate Professor	5	02	03	No
4		Assistant Professor	2	--	02	No

Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>5. Department of Agril. Meteorology</b>						
1	2018-19	Professor	01	01	--	-
2		Associate Professor	01	01	--	-
3		Assistant Professor	02	02	--	No
1	2019-20	Professor	01	01	--	No
2		Associate Professor	01	01	--	-
3		Assistant Professor	02	02	--	-
1	2020-21	Professor	01	01	--	No
2		Associate Professor	01	01	--	No
3		Assistant Professor	02	02	--	-
1	2021-22	Professor	01	01	--	-
2		Associate Professor	01	01	--	No
3		Assistant Professor	02	02	--	No

1	2022-23	Professor	01	01	--	-
2		Associate Professor	01	01	--	No
3		Assistant Professor	02	02	--	No

Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>6. Department of Agril. Entomology</b>						
1	2018-19	Head	01	01	--	-
2		Professor	01	--	01	-
3		Associate Professor	08	04	04	No
4		Assistant Professor	04	04	--	No
1	2019-20	Head	01	01	--	-
2		Professor	01	01	--	-
3		Associate Professor	08	04	04	No
4		Assistant Professor	04	04	--	No
1	2020-21	Head	01	01	--	-
2		Professor	01	01	--	-
3		Associate Professor	08	03	05	No
4		Assistant Professor	04	04	--	No
1	2021-22	Head	01	01	--	-
2		Professor	01	01	--	-
3		Associate Professor	08	03	05	No
4		Assistant Professor	04	04	--	No
1	2022-23	Head	01	01	--	-
2		Professor	01	01	--	-
3		Associate Professor	08	03	05	No
4		Assistant Professor	04	03	01	No

Sr. No	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>7. Department of Agril. Engineering</b>						
1	2018-19	Head	01	--	01	-
2		Professor	-	--	--	-
3		Associate Professor	03	03	--	No
4		Assistant Professor	05	05	--	No
1	2019-20	Head	01	01	--	-
2		Professor	-	-	-	-
3		Associate Professor	03	03	--	No
4		Assistant Professor	05	05	--	No
1	2020-21	Head	01	01	--	-
2		Professor	-	-	-	-

3		Associate Professor	03	03	--	No
4		Assistant Professor	05	05	--	No
1	2021-22	Head	01	01	--	-
2		Professor	-	-	-	-
3		Associate Professor	03	03	--	No
4		Assistant Professor	05	05	--	No
1	2022-23	Head	01	01	--	-
2		Professor	-	-	-	-
3		Associate Professor	03	03	--	No
4		Assistant Professor	05	05	--	No

Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>8. Department of Agril. Extension Education</b>						
1	2018-19	Head	01	01	--	-
2		Professor	01	--	01	-
3		Associate Professor	05	03	02	No
4		Assistant Professor	05	04	01	No
1	2019-20	Head	01	01	--	-
2		Professor	01	01	--	-
3		Associate Professor	05	03	02	No
4		Assistant Professor	05	04	01	No
1	2020-21	Head	01	01	--	-
2		Professor	01	01	--	-
3		Associate Professor	05	03	02	No
4		Assistant Professor	05	04	01	No
1	2021-22	Head	01	01	--	-
2		Professor	01	01	--	-
3		Associate Professor	05	03	02	No
4		Assistant Professor	05	03	02	No
1	2022-23	Head	01	01	--	-
2		Professor	01	01	--	-
3		Associate Professor	05	03	02	No
4		Assistant Professor	05	03	02	No



Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>9. Department of Horticulture</b>						
1	2018-19	Head	01	1	-	-
2		Professor	01	1	-	-
3		Associate Professor	03	2	1	No
4		Assistant Professor	05	3	2	No
1	2019-20	Head	01	1	-	-
2		Professor	01	-	1	-
3		Associate Professor	03	1	2	No
4		Assistant Professor	05	3	2	No
1	2020-21	Head	01	-	1	-
2		Professor	01	1	-	-
3		Associate Professor	03	-	3	No
4		Assistant Professor	05	3	2	No
1	2021-22	Head	01	1	-	-
2		Professor	01	1	-	-
3		Associate Professor	03	-	3	No
4		Assistant Professor	05	3	2	No
1	2022-23	Head	01	1	-	-
2		Professor	01	1	-	-
3		Associate Professor	03	1	2	No
4		Assistant Professor	05	2	3	No

Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>10. Department of Plant Pathology</b>						
1	2018-19	Head	01	1	-	-
2		Professor	01	-	1	-
3		Associate Professor	05	3	2	No
4		Assistant Professor	04	2	2	No
1	2019-20	Head	01	1	-	-
2		Professor	01	1	-	-
3		Associate Professor	05	2	3	No
4		Assistant Professor	04	3	1	No
1	2020-21	Head	01	1	-	-
2		Professor	01	1	-	-
3		Associate Professor	05	2	3	No

4		Assistant Professor	04	3	1	No
1	2021-22	Head	01	1	-	-
2		Professor	01	1	-	-
3		Associate Professor	05	2	3	No
4		Assistant Professor	04	2	2	No
1	2022-23	Head	01	-	1	-
2		Professor	01	1	-	-
3		Associate Professor	05	3	2	No
4		Assistant Professor	04	-	4	No

Sr. No.	Year	Sanctioned faculty	Sanctioned post in position	Faculty in place	Vacant position	Whether present profile is sufficient to meet academic requirement
<b>11. Department of Soil Science</b>						
1	2018-19	Head	01	01	00	-
2		Professor	01	00	01	-
3		Associate Professor	04	01	03	No
4		Assistant Professor	08	05	03	No
1	2019-20	Head	01	01	00	-
2		Professor	01	01	00	-
3		Associate Professor	04	02	02	No
4		Assistant Professor	08	05	03	No
1	2020-21	Head	01	01	00	
2		Professor	01	01	00	
3		Associate Professor	04	02	02	No
4		Assistant Professor	08	05	03	No
1	2021-22	Head	01	01	00	
2		Professor	01	01	00	
3		Associate Professor	04	02	02	No
4		Assistant Professor	08	04	04	No
1	2022-23	Head	01	00	01	
2		Professor	01	01	00	
3		Associate Professor	04	01	01	No
4		Assistant Professor	08	06	02	No

**6.5.2.3 Credentials of the faculty:**

The professional credentials of the faculty of B.Sc (Agri.), M.Sc. (Agri.) and Ph.D. degree programmes is given as detailed below.

The University has employed competent faculty members in each subject to accomplish the mission and goals of the college.

**Faculty credentials of the faculty of B.Sc (Agri), M.Sc. (Agri.) and Ph.D. degree programmes**

Sr. No	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field	Professional Licensure	Certificate Honors/ Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contributes to effective teaching and students learning out cum
<b>▪ Department of Agronomy</b>								
<b>1</b>	2018-19 to 2022-23	<b>Dr. W.N. Narkhede</b>	Head Ph. D. (Agri.)	32 years Teaching Research and Extension	<ul style="list-style-type: none"> <li>Life member of Indian Society of Agronomy</li> <li>Indian Society of Dryland Agriculture.</li> <li>Association of Agro meteorologists</li> </ul>	1. Rajiv Gandhi Award for Research and Education. 2. Agrocare Idol Award 2021	Students guided : Ph.D.: 06 M.Sc.: 14	<ul style="list-style-type: none"> <li>Research Papers: 45</li> <li>Book : 01</li> <li>Popular Articles : 78</li> <li>Bulletin : 05</li> <li>Research recommendations: 22</li> </ul>
<b>2</b>	2019 to 2021-22	<b>Dr. B.V. Asewar</b>	Head Ph. D. (Agri.)	25 years Teaching Research and Extension	<ul style="list-style-type: none"> <li>Life member of Indian Society of Agronomy Oil seed Research.</li> <li>Indian Society of Dryland Agriculture.</li> <li>Association of Agro meteorologists</li> <li>Indian Society of weed science.</li> </ul>	1. ISA Fellow Award 2022, 2. ISDA best oral presentation award 2022	Students guided : Ph.D.: 04 M.Sc.: 15	<ul style="list-style-type: none"> <li>Research Papers: 50</li> <li>Book : 10</li> <li>Popular Articles : 24</li> <li>Book chapters : 10</li> <li>Research recommendations: 05</li> </ul>
<b>3</b>	2018-23	<b>Dr. V.B. Awsaramal</b>	Assoc. Prof. / Ph.D. (Agri.)	14 years in Teaching, research and Administration	<ul style="list-style-type: none"> <li>Life member of Indian Society of Agronomy</li> <li>Indian Society of Dryland Agriculture.</li> </ul>		Students guided : M.Sc.: 12	<ul style="list-style-type: none"> <li>Research Papers: 30</li> <li>Popular Articles : 02</li> <li>Folders : 04</li> </ul>
<b>4</b>	2018-23	<b>Dr. G.A. Bhalerao</b>	Assoc. Prof. / Ph.D. (Agri.)	15 years in Teaching, research and Administration	<ul style="list-style-type: none"> <li>Life member of Indian Society of Agronomy</li> <li>Indian Society of Dryland Agriculture.</li> </ul>		Students guided : M.Sc.: 08	<ul style="list-style-type: none"> <li>Research Papers: 28</li> <li>Popular Articles : 02</li> <li>Folders : 04</li> </ul>

5	2018-23	<b>Dr. Mirza I.A.B.</b>	Asstt. Prof. / Ph.D. (Agri.)	16 years in Teaching , research	<ul style="list-style-type: none"> <li>Life member of Indian Society of Agronomy</li> <li>Indian Society of Dryland Agriculture.</li> </ul>	<ul style="list-style-type: none"> <li>Young Scientist Award, Best Poster and Oral presentation Award</li> </ul>	Student Guided: M.Sc. 16	<ul style="list-style-type: none"> <li>Research Papers: 53</li> <li>Book : 01</li> <li>Chapter in Books: 03</li> <li>PopularArticles : 30</li> <li>Folders : 04</li> <li>Research recom.: 05</li> <li>Patent: 01</li> </ul>
6	2018-23	<b>Dr. Sunita U. Pawar</b>	Asstt. Prof. / Ph.D.(Agri.)	15 years in Teaching , research	<ul style="list-style-type: none"> <li>Life member of Indian Society of Agronomy</li> <li>Indian Society of Dryland Agriculture.</li> <li>Indian Society of weed science.</li> </ul>	<ul style="list-style-type: none"> <li>Agrocare Idol Award 2020</li> </ul>	Students guided : M.Sc.: 05	<ul style="list-style-type: none"> <li>Research Papers: 43</li> <li>Book : 01</li> <li>Booklets: 02</li> <li>PopularArticles : 30</li> <li>Folders : 04</li> <li>Research Rec.: 05</li> </ul>
7	2018-23	<b>Dr. Megha P.Jagtap</b>	Asstt. Prof. / Ph. D. (Agri.) PG.Dip.PGD AEM	19years in Teaching , research	<ul style="list-style-type: none"> <li>Life member of Indian Society of Agronomy</li> <li>Association of Agro meteorologists</li> <li>Indian Society of Dryland Agriculture</li> <li>Hong Kong Chemical, Biological&amp;Environmental Engg. Society HKCBES</li> <li>Society of Agricultural Research and Social Development, New Delhi</li> </ul>	<ul style="list-style-type: none"> <li>Vasantrao Naik Award for Research Application in Agriculture for year 2018-19 by ICAR New Delhi</li> </ul>	Students guided M.Sc.: 8	<ul style="list-style-type: none"> <li>Research Papers: 15</li> <li>Book chapter: 01</li> <li>Popular Articles: 02</li> <li>Bulletin: 00</li> </ul>
8	2018-2023	<b>Mr. S.V. Gosavi</b>	Asstt. Prof. / M.Sc. (Agri.)	12 years in Teaching , research	<ul style="list-style-type: none"> <li>MaharashtraAgricultural Journa.</li> </ul>	-	Students guided : M.Sc.: 03	<ul style="list-style-type: none"> <li>Research Papers: 01</li> <li>Book : 01</li> </ul>
9	2018-2023	<b>Ms. J.D. Gaikwad</b>	Asstt. Prof. / M.Sc. (Agri.)	14 years in Teaching , research	<ul style="list-style-type: none"> <li>Life member of Indian Society of Agronomy</li> </ul>	-	-	<ul style="list-style-type: none"> <li>Research Papers: 1</li> <li>Book chapter : 01</li> </ul>
10	2018-2021	<b>Mr. P.K. Waghmare</b>	Asstt. Prof. / M.Sc. (Agri.)	15 years in Teaching , research	<ul style="list-style-type: none"> <li>Life member of Indian Society of Agronomy</li> <li>Indian Society of Dryland Agriculture.</li> </ul>	<ul style="list-style-type: none"> <li>Agrocare Idol Award 2020</li> </ul>	Students guided : M.Sc.: 05	<ul style="list-style-type: none"> <li>Research Papers: 43</li> <li>Book : 01</li> <li>Booklets: 02</li> <li>PopularArticles : 30</li> <li>Folders : 04</li> <li>Research recom: 05</li> </ul>

Sr. No	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field	Professional Licensure	Certificate Honors/ Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contributes to effective teaching and students learning out cum
▪ <b>Department of Genetics and Plant Breeding, Plant Physiology and Seed Science &amp; Technology</b>								
1	2018-19 to 2022-23	<b>Dr. H.V. Kalpande</b>	Head Ph.D. (Agri.), NET, Commonwealth Fellow 2007, UK.	22 years Teaching Research and Extension	Life member of  1. Life member of Indian Society of Genetics and Plant Breeding, IARI, New Delhi, India.  2. Life member of Journal of Agriculture Res. & Technology, College of Agriculture, Pune.  3. Life member of Biotechnology Society of India Dept. of Biochemistry, University of New Delhi.  4. Life member of Society for Millets Research, NRCS, Hyderabad.	1. Certificate of Appreciation for preparation of SSR report of VNMKV, Parbhani from DI and Dean (F/A), VNMKV, Parbhani Dt. 25.09.2018  2. Certificate of Appreciation for commendable and outstanding work in 22 <sup>nd</sup> National Conference of Maharashtra Society of Agricultural Economics at VNMKV, Parbhani during 21-22 December, 2019  3. Certificate of Appreciation for Greening the Campus by Hon. Vice-Chancellor, VNMKV, Parbhani Dt. 26 January 2021.  4. Certificate of Appreciation for Greening the Campus by District Forest Officer, Parbhani Dt. 21 March 2021.  5. Certificate of Appreciation for	▪ Students guided :Ph.D.: 04 M.Sc.: :04 • Member of Advisory Committee : M.Sc.: :17 Ph.D.: 06	▪ Research Papers: 41 ▪ Popular Articles :07 ▪ Abstract : 31 ▪ Varieties : 06 ▪ Recommendation: 03 ▪ Book : 03



						Liaisoning Officer by Hon. Vice-Chancellor, VNMKV, Parbhani Dt. 01 November 2022		
<b>2</b>	2018-19 to 2022-23	<b>Dr. G. S. Pawar</b>	Associate Professor	16 years Teaching Research and Extension	Life member of <ul style="list-style-type: none"> <li>Journal of Maharashtra Agricultural University</li> <li>Journal of Research ANGRAU</li> <li>Indian Society of Plant Physiology</li> <li>Society of Abiotic Stress Research Management</li> <li>Society for Plant Biochemistry &amp; Biotechnology.</li> <li>Indian Society of Genetics &amp; Plant breeding</li> <li>Indian Science Congress</li> <li>The Indian Society of Dryland Agriculture</li> <li>Genises Urban &amp; Rural Development Society</li> </ul>		<ul style="list-style-type: none"> <li>Students guided M.Sc.: :05</li> </ul>	<ul style="list-style-type: none"> <li>Research Papers: 03</li> </ul>
<b>3</b>	2018-19 to 2022-23	<b>Dr. A.M. Dethe</b>	Associate Professor	14 Yrs: Teaching 04 Yrs: Research 01 Yr : Admin.	Life Member of: <ol style="list-style-type: none"> <li>J. Agri. Res. Technol. (JART)</li> <li>Indian Society of GPB (ISGPB)</li> <li>PKV Research Journal</li> </ol>	<ol style="list-style-type: none"> <li>"Incentive Awards for Publication"(Received in DBT-BIF-GoI, AGM 2018-19).</li> <li>'Compliments by Hon. Vice Chancellor, VNMKV' for Continuation &amp; Budget allocation of DBT-BIF-BTISNet Project during 14<sup>th</sup>Fin. Cycle.</li> <li>Best Oral Presentation during International Conference at CoH, Bengaluru Nov. 24-27, 2020</li> <li>Best Poster Presentation (Second Prize) during 'National</li> </ol>	<ul style="list-style-type: none"> <li>Students guided M.Sc.: 09</li> <li>Advisory Committee :33</li> </ul>	<ul style="list-style-type: none"> <li>Book : Training Manual Chapter (01)</li> <li>Research Papers: 02</li> </ul>

						Symposium on Plant Health Management' CoA, Navsari Agricultural University, Gujarat.2-4Nov., 2020		
4	2018-19 to 2022-23	<b>Dr. R.R. Dhutmal</b>	Assistant Professor	16years Teaching Research and Extension	----	----	▪ Students guided : M.Sc.: 04	
5	2018-19 to 2022-23	<b>Dr. D.K. Zate</b>	Assist. Professor Ph.D. (GPB) NET	Teaching 16yrs Research:- 2Yrs	--	▪ Appreciation certificate for Best Worker by Hon. Vice Chancellor, VNMKV, Parbhani	▪ Students guided M.Sc.:02 Advisory Committee:08	Research Papers: 09 Book : 04
6	2018-19 to 2022-23	<b>Dr. D.G. Dalvi</b>	Assistant Professor	32 years Teaching Research and Extension	Life member of 03 ▪ Indian Society for Plant Physiology, IARI, New Delhi ▪ Journal of Agriculture Research and Technology, CoA, Pune ▪ Society of Agricultural Research and Social Development, New Delhi	▪ 02 ▪ 01 Excellence in Research award-2019 ▪ 02	▪ Students guided :Ph.D.: ▪ M.Sc.: 06	▪ Research Papers: 16 ▪ Abstract : 3 ▪ Book chapter : 02
7	2018-19 to 2022-23	<b>Dr. A.W. More</b>	Assistant Professor Ph.D. Agril. Botany (Genetics & Plant Breeding)	15 years (12 years Research & 3 years teaching	▪ Indian Society of Genetics & Plant Breeding, IARI, New Delhi-110012. ▪ Indian J Genetics & Pl.Breeding ▪ Society for Millet Research, DSR, Hyderabad ▪ Journal of Agril. Research & Technology, College of Agril. Pune 411005	1. 10th State Level Agrocure Idol Award 2018, Sponsored by Agrocure Krishi Munch, Nashik (MS). Sponsored by Krishi Bhushan and Vaishnavi Biotech Cooperation 2. Excellence in Research Award by Society for agriculture innovation and development, Ranchi during National Conference on Food & Nutritional Security and Sustainable Agriculture 15-16 April, 2022 (Hyderabad).	Advisory Member MSc.: 06	▪ Research Papers: 22(four> 6.0 rating) ▪ Book : 01 ▪ Popular Articles : 05

<b>8</b>	2018-19 to 2022-23	<b>Dr. J.D. Deshmukh</b>	Assistant Professor	15 years Teaching Research and Extension	<p>Life member of</p> <ol style="list-style-type: none"> <li>1. Life Member of Cotton Research Development and Association</li> <li>2. Life Member of Multilogic in Science (NAAS : 5.20)</li> <li>3. Genesis Urban &amp; Rural Development Society No. GUARD / LM /61/ 2017 (NAAS : 5.30)</li> </ol>	<ol style="list-style-type: none"> <li>1. Certificate of Appreciation for commendable and outstanding work in 22nd National Conference of Maharashtra Society of Agricultural Economics at VNMKV, Parbhani during 21-22 December, 2019</li> <li>2. Certificate of Appreciation for National E Quiz on “Mendelian Genetics 198th Birth Anniversary of Gregor Johann Mendel” Organized by Department of Animal Genetics and Breeding, COVAS, Parbhani on 24, July 2020</li> <li>3. Certificate of Merit for secure First place in Volleyball 2nd MSA University Sport Meet 2020 organized by VNMKV, Parbhani 22nd to 24th January 2020</li> <li>4. Certificate of Merit for secure First place in Badminton 2nd MSA University Sport Meet 2020 organized by VNMKV, Parbhani 22nd to 24th January 2020</li> <li>5. Certificate of Merit for secure First place in Volleyball in 3rd Maharashtra State Inter Agricultural University Employees Sport meet -2021-22 held at BSKKV, Dapoli during 1st to 3rd March, 2022</li> <li>6. Certificate of Merit for secure First place in Badminton in 3rd Maharashtra State Inter Agricultural University</li> </ol>	<p>▪ Students guided : M.Sc.: :05</p>	<p>▪ Research Papers: 20 ▪ Popular Articles : 02 ▪ Book : 04</p>
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						Employees Sport meet -2021-22 held at BSKKV, Dapoli during 1st to 3rd March, 2022		
<b>9</b>	2018-19 to 2022-23	<b>Dr. M.P. Wankhade</b>	Assistant Professor Ph.D. (Cytogenetics and Plant Breeding)	11 years of Teaching and Research and Extension	<p>Life member of</p> <p>1. Vidarbha Association For Research, Technology And Development In Agriculture And Rural Sectors (ATIC, Near University Main Gate, Dr. PDKV, Akola – 444 401)</p> <p>2. Directorate Of Research (Dr. Panjabrao Deshmukh Krishi Vidyapeeth Akola (M.S.)</p> <p>3. Forum for Plant Physiologist, Akola for the Journal of “Annals of Plant Physiology”</p> <p>4. Indian Society Of plant Breeders (Tamil Nadu Agriculture University Coimbatore – 641003)</p>	<p>1. Certificate of honours as a value Reviewer and contributed to the quality and success of journal. International Journal of Agriculture Sciences ISSN 0975-3710 EISSN 0975-9107 Bioinfo Publications 01 March 2018</p> <p>2. Certificate of appreciation for commendable and outstanding work in the organization of 22nd National Conference of Maharashtra Society of Agricultural Economics, held during 21-22 December, 2019 at Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani</p> <p>3. Certificate of Merit for secure winner prize in 2<sup>nd</sup></p> <p>4. MSA University Sport Meet 2020 held at VNMKV, Parbhani during 22nd to 24th January 2020</p> <p>5. Certificate of appreciation for successfully completing the online quiz on public administration , May 2020 organised by Department of Public administration, Aurangabad.</p> <p>6. Certificate of honours as a</p>	<p>▪ Students guided Ph.D.: -- M.Sc.: 05</p>	<p>▪ Research Papers: 26</p> <p>▪ Book : 04</p> <p>▪ Popular Articles :</p> <p>▪ Bulletin :</p>

						valued Reviewer and contributed to the quality and success of journal. International Journal of Agriculture Sciences ISSN 0975-3710 EISSN 0975-9107 Bioinfo Publications 18 Feb 2022 7. Best Faculty Award (In the International Scientist Award on Engineering, Science and Medicine, held on 18-Jun-2022, Coimbatore, India, Organized by VDGGOOD Professional Association)		
10	2018-19 to 2022-23	Dr. A.R. Gaikwad	Assistant Professor	11 years Teaching Research and Extension	Life member of 1. Indian Society of Genetics and Plant Breeding, NASC Complex, IARI, Pusa Campus, New Delhi from 10.12.2018 2. Indian Society of Plant Genetic Resources, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi from 13.12.2018 3. Cotton Development Research Association 4. Maharashtra Agriculture Universities 5. Indian Society Of plant Breeders (Tamil Nadu Agriculture University Coimbatore – 641003)	----	Students guided: M.Sc.: 01 Advisory committee Member M.Sc.: 04	<ul style="list-style-type: none"> <li>Popular Articles: 02</li> <li>Research Papers: 10</li> </ul>



Sr. No	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field	Professional Licensure	Certificate Honors/ Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contributes to effective teaching and students learning out cum
<b>▪ Department of Agril. Economics</b>								
<b>1</b>	2018-19 to 2020-21	<b>Dr. K. V. Deshmukh</b>	Head Ph.D.	34	-	-	Number of Students guided (M.Sc./Ph.D.) - 15	<ul style="list-style-type: none"> <li>• Research papers published-15</li> <li>• Abstract published-06</li> <li>• Popular articles published - 02</li> <li>• Recommendation /Varieties released- 04</li> <li>• Trainings attended- 03</li> <li>• Conferences attended- 02</li> </ul>
<b>2</b>	2018-19 to 2022-23	<b>Dr. D. S. Perke</b>	Professor/ Ph.D.	19	02	Number of Honours & awards - 02	Number of Students guided (M.Sc./Ph.D.) - 22	<ul style="list-style-type: none"> <li>• Research papers published-35</li> <li>• Abstract published-15</li> <li>• Books published - 01</li> <li>• Popular articles published - 06</li> <li>• ICT tools developed - 05</li> <li>• Recommendation /Varieties released- 08</li> <li>• Trainings attended- 08</li> <li>• Conferences attended- 06</li> </ul>
<b>3</b>	2018-19 to 2020-21	<b>Dr. S.R. Nagargoje</b>	Assoc. Prof./ Ph.D.	33	-	-	Number of Students guided (M.Sc./Ph.D.) - 12	<ul style="list-style-type: none"> <li>• Research papers published-10</li> <li>• Abstract published-04</li> <li>• Project Handled - 01</li> <li>• Recommendation /Varieties released- 03</li> <li>• Trainings attended- 02</li> <li>• Conferences attended- 01</li> </ul>
<b>4</b>	2018-19 to 2022-23	<b>Dr. S.S. More</b>	Assoc. Prof. Ph.D.	16	-	Number of Honours & awards - 02	Number of Students guided (M.Sc./Ph.D.) - 21	<ul style="list-style-type: none"> <li>• Research papers published-35</li> <li>• Abstract published-24</li> <li>• Popular articles published - 05</li> <li>• ICT tools developed - 05</li> <li>• Recommendation /Varieties released- 08</li> <li>• Special attainments - 02</li> </ul>

								<ul style="list-style-type: none"> <li>• Number of Trainings attended- 03</li> <li>• Number of Conferences attended- 05</li> </ul>
5	2018-19 to 2022-23	<b>Dr. R.V. Chavan</b>	Assoc. Prof. Ph.D.	19	02	Number of Honours & awards - 03	Number of Students guided (M.Sc./Ph.D.) - 13	<ul style="list-style-type: none"> <li>• Research papers published-28</li> <li>• Abstract published-15</li> <li>• Books published - 01</li> <li>• Chapter's published- 01</li> <li>• Popular articles published - 10</li> <li>• ICT tools developed - 06</li> <li>• Project Handled - 04</li> <li>• Recommendation /Varieties released- 08</li> <li>• Trainings attended- 09</li> <li>• Conferences attended- 09</li> </ul>

Sr. No	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field	Professional Licensure	Certificate Honors/ Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contributes to effective teaching and students learning out cum
<b>▪ Department of Agricultural Engineering</b>								
1	2018-19 to 2022-23	<b>Dr. R. G. Bhagyawant</b>	Head / Asso. Professor Ph.D. (Agri. Engg.)	24 years Teaching Research and Extension	Life member of ▪ Indian Society of Agricultural Engineering	1. 03 recommendations on deficit irrigation 2. Developed ELP module on protected cultivation at COA, Ambajogai 3. Best participant in Winter School at CIPHET, Ludhiana in 2017	▪ Students guided: Ph. D: Nil M. Tech: 10 B. Tech:	▪ Research Papers: 01 ▪ Popular Articles: 22 ▪ Bulletin : 12
2	2018-19 to 2022-23	<b>Dr. R.V. Jaybhaye</b>	Associate Professor Ph. D (Food Engg.)	24 years Teaching Research and Extension	Life member of ▪ Indian Society of Agricultural Engineering ▪ Indian Dairy Engineers Association ▪ Association of Food Scientists &	1. Best oral presentation of the research paper in Intern. Conf. on Food Technology – Edition II in 2010 at IICPT, Thanjavur 2. Best Poster presentation of the research paper in Intern. Conf. on Entrepreneur-ship in Agriculture and Renewable Energy Sector, in 2019 at PDKV, Akola	▪ Students guided: Ph. D: Nil M. Tech: 05 B. Tech: 06	▪ Research Papers: 25 ▪ Book : 02 ▪ Popular Articles: 05

					Technologists	3. Appreciation for commendable work in accreditation in 2018 4. Planning & execution of roof & runoff water harvesting by implementing Dewas Pattern in the Campus, COA, Latur from 2002 to 2019 5. Campus Survey & Map preparation of College of Agriculture, Latur		
3.	2018-19 to 2022-23	<b>Prof. B.P. Sawant</b>	Assistant Professor M. Tech. (Dairy & Food Engg.)	31 years Teaching and Research	Life member of	--	■ Students guided: Ph. D: Nil M. Tech: 02	■ Research Papers: 12 ■ Book : 02 ■ Popular Articles: 19 ■ Bulletin : -
4.	2018-19 to 2022-23	<b>Prof. V.B. Jadav</b>	Assistant Professor M. Sc. (Maths), M.Phil.	13 years Teaching Research	Life member of	■ Best Programme officer (NSS) ■ Appreciation Letter from Hon. Vice-Chancellor	■ Students guided: ■ Ph. D: Nil M. Tech: Nil	■ Research Papers: - ■ Book : - ■ Popular Articles: - ■ Bulletin : -
5.	2018-19 to 2022-23	<b>Dr. S. S. Phulari</b>	Assistant Professor Ph. D. (Comp. Science)	7 years Teaching Research	Life member of	■ Indian National Science Congress ■ Developed Computer Lab & Language Lab at COA, Osmanabad ■ Developed Over Head LAN Network at VNMKV, Parbhani ■ Created Online Semester End Examination system for the University during COVID-19 ■ Member of the Committee for organizing Ten Workshop/ training/Symposium under DFSRDA Centre, VNMKV, Parbhani. ■ NAHEP CORE Team Member	■ Students guided: ■ Adv. Member – Ph. D: 02 M. Tech: 02 M. Sc.: 04	■ Research Papers: 10 ■ Book : 03 ■ Popular Articles: 02 ■ Bulletin : -
6.	2018-19 to 2022-23	<b>Er. S.N. Pawar</b>	Assistant Professor, M. Tech. (Agril. Engg.)	03 years Teaching Research & Extension	Life member of	■ Indian society of Agricultural Engineering, New Delhi (LM-10668) ■ Best Trainee Certificate in short course at PDKV, Akola ■ Best Programme Officer, State Level Award in NSS ■ Appreciation for commendable	-	■ Research Papers: 25 ■ Book : - Nil ■ Popular Articles: 25 ■ Bulletin : 03 ■ Folders: 03

					<ul style="list-style-type: none"> <li>▪ The Indian society for Hydraulics (LM-1184)</li> <li>▪ Indian Journal of Dryland Agricultural Research and Development</li> </ul>	work in accreditation in 2018 <ul style="list-style-type: none"> <li>▪ Member of the Committee for organizing Ten Workshop/ training/Symposium under DFSRDA Centre, VNMKV, Parbhani.</li> <li>▪ NAHEP CORE Team Member</li> <li>▪ Worked Co-PI in NAHEP Project</li> </ul>		
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Sr. No	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field	Professional Licensure	Certificate Honors/ Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contributes to effective teaching and students learning out cum
<b>▪ Department of Agril. Entomology</b>								
1	2018-19 to 2022-23	<b>Dr. S.D. Bantewad</b>	Head (2019-22) / Ph. D. (Agril. Ento.) NET	25 years Teaching and Research	Life member of Entomological Society of India, New Delhi		<ul style="list-style-type: none"> <li>▪ Students guided :</li> <li>▪ Ph.D.: 03 (In Progress )</li> <li>▪ M.Sc.: 13</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: 33</li> <li>▪ Book : 07</li> <li>▪ PopularArticles : 40</li> </ul>
2	2018-19 to 2022-23	<b>Dr. P.S. Neharkar</b>	Prof. & Head , ( From 1 <sup>st</sup> uly 2022 )  Ph.D. (Agril. Ento.) NET	24 years Teaching and Research and Extension	Life member of 1. Entomological Society of India, New Delhi 2. Journal of Agriculture Research & Technology, COA, Pune 3. Genesis Urban and Rural Development Society ( GUARD), Telangana Rural Development Organisation, Andhri 4. ( E) Mumbai. 5. Vishvashanti multipurpose Society, Nagpur	1. Fellow of Vishvashanti multipurpose Society, Nagpur 2. Panjabrao Deshmukh Educational International Award: Mahatma Fule Talent Research Academy (MFTRA), Nagpur 2. Excellence in Teaching Award by Institute is GUARD Hyderabad. 3. Appreciation for commendable & outstanding work in the organization of 22 <sup>nd</sup> National Conference of	<ul style="list-style-type: none"> <li>▪ Students guided: Ph.D.: 03 (In Progress ) M.Sc.: 10</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: 52</li> <li>▪ Book :05</li> <li>▪ PopularArticles : 65</li> </ul>

					6. Bhartiya Samaj Prabodhan	MSAE, Dept. of Agril. Economics, VNMKV Parbhani 2019		
3	2018-19 to 2022-23	<b>Dr.S.S. Gosalwad</b>	Asso. Prof. / Ph. D. (Agri.) NET	18years Teaching and Research	1.Life member of Green Reap Welfare Society (GRWS), Adilabad, Telangana		▪ Students guided M.Sc.: 05	▪ Research Papers: 21 ▪ Book : 02 ▪ PopularArticles : 08
4	2018-19 to 2022-23	<b>Dr.P R Zanwar</b>	Head (2018-19) & Associate Prof / Ph. D. (Agri.) NET	24 years Teaching Research and Extension	Life member of 1. Green Reap Welfare Society (GRWS), Adilabad, Telangana 2. Journal of Maharashtra Agri. Universities, Pune	1.Outstanding Agricultural Scientist Award 2020 in B. Vasantaraj David Foundation, Chennai	▪ Students guided ▪ Ph.D.: 04 M.Sc.: 15	▪ Research Papers: 51 ▪ Book : 06 ▪ PopularArticles : 112
5	2018-19 to 2022-23	<b>Dr.D.R. Kadam</b>	Associate Prof. / Ph. D. (Agri.) NET	19 years Teaching and Research	Life member of 1. Society for Biocontrol Advancement, Bangluru, Karnataka 2. Green Reap Welfare Society (GRWS), Adilabad, Telangana	1.Appreciation for commendable & outstanding work in the organization of 22 <sup>nd</sup> National Conference of MSAE, Dept. of Agril. Economics, VNMKV Parbhani 2019 2.Certificate of Appreciation (2019-20) by Society of Pesticide science, ICAR, New Delhi for Participation and input as reviewer of Pesticide Research Journal	▪ Students guided ▪ Ph.D.: 07 M.Sc.: 20	▪ Research Papers: 55 ▪ Book : 06 ▪ PopularArticles : 23
6	2018-19 to 2022-23	<b>Dr. M.M. Sonkamble</b>	Assistant Prof. / Ph. D. (Agri.) NET	24 years Teaching Research and Extension	Life member of 1.Entomological society of india,new delhi 2.Entomological research association, Udaipur 3.Green reap welfare society 4.Genesis urban & rural devpt society 5.Association of	1.Excellence in Teaching Award by Institute is GUARD Hyderabad.	▪ Students guided M.Sc.: 10	▪ Research Papers: 50 ▪ Book : 06 ▪ PopularArticles : 25



					agrometeorologists			
7	2018-19 to 2022-23	▪ <b>Dr. B. V Bhede</b>	▪ Assistant Prof. / ▪ Ph.D. (Agri.) NET	▪ 15 years Teaching Research and Extension	▪ Life member of ▪ Entomological society of India, New Delhi	▪ Nil	▪ Students guided ▪ M.Sc.: 03	▪ Research Papers-48, ▪ Books -02 ▪ Popular Article-40
8	2018-19 to 2022-23	<b>Dr. F.S.Khan</b>	Assistant Prof. / Ph.D. (Agri.) NET	12 years Teaching and Research	Life member of 1. Journal of Agriculture Research & Technology 2. Association of Agro-meteorologists, Anand 2. 4.Plant protection Association of India, Hyderabad		▪ Students guided: M.Sc.: 05	▪ Research Papers: 16 ▪ Book: 01 ▪ PopularArticles: 35
9	2018-19 to 2022-23	<b>Dr. A.G. Badgajur</b>	Assistant Prof. / Ph.D. (Agri.) NET	19 years Teaching and Research	Life member of 1. Entomological society of India, New Delhi 2. Cotton Research and Development Association, Hisar. 3. Association of Agro-meteorologists, Anand 4. Plant protection Association of India, Hyderabad		▪ Students guided: ▪ M.Sc.: 01	▪ Research Papers: 40 ▪ Book :21 ▪ PopularArticles : 413
10	2018-19 to 2022-23	<b>Dr. N.E. Jayewar</b>	Assistant Professor Ph.D. (Agri)	16years Teaching and Research	Life member of 1. Indian Society of Oil seed Research. 2. Society for Plant Protection and Environment 3. PKV, Research Journal 4. Green Reap Society GUARD Society	1. Received Distinguish scientist Award in ICAAASTSD-2018 Received Best Ph.D.thesis Award PAAS- 2020	▪ Students guided :M.Sc.: 03	▪ Research Papers: 48 ▪ Book : 04 ▪ Popular Articles: 40 ▪ Bulletin /Leaflet : 01

Sr. No.	Year	Name of faculty	Designation	Highest qualification	Related work experience in the field	Professional Licensure	Certificate Honours / Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contributes to effective teaching and students learning outcome
<b>Department of Agril. Meteorology</b>									
1	2018-19 to 2022-23	<b>M.G.Jadhav</b>	Professor	Ph.D.	22 years Teaching, Research & Extension	--	1. Awarded Best AICRP centre 2008-2009. 2. Merit Cum-mean scholarship during UG degree programme	1. PG Students Guided : 19 2. Research Paper Published : 30 3. Research. Recommendation : 02	<ul style="list-style-type: none"> <li>Worked Officer In Charge Dept. of Agril. Meteorology.</li> <li>Worked Officer In Charge AICRP on Agro-meteorology.</li> <li>Member of Professional Society – 02</li> <li>Externally Funded Projects 1. AICRP 2. GKMS 3. NICRA</li> <li>Workshop/Training – 10</li> <li>Int. Conference.-04</li> <li>Nat. Conference.-10</li> </ul>
2	2018-19 to 2022-23	<b>P.R.Jaybhaye</b>	Asso. Professor	Ph.D.	22 years UG, PG Teaching, Research & Extension	--	--	1. Res. Paper Published : 18 2. M.Sc. student guided : 21	<ul style="list-style-type: none"> <li>Training – 02</li> <li>Member of Professional Society – 01</li> <li>Externally Funded Projects (Supervised /Handled/Assisted) 1. GKMS 2. FASAL 3. Commercial fruit nursery</li> </ul>
3	2018-19 to 2022-23	<b>A.M.Khobragade</b>	Assistant Professor	M.Sc. (Agri)	15 Years Teaching U.G and P.G.. Experience: Teaching and Research –	---	---	1. M.Sc. student – 26 2. Popular article – 03 3. Research Paper – 32	<ul style="list-style-type: none"> <li>Training – 02</li> <li>Nat. Conference- 01</li> <li>Int. Conference-01</li> <li>Teaching and</li> <li>Member of Professional Society – 02</li> </ul>
4	2019-20 to 2022-23	<b>G.N.Gote</b>	Assistant Professor	M.Sc. (Agri)	07 Years Experience: Teaching and Research			1. M.Sc. student – 01 2. Research Paper – 07	<ul style="list-style-type: none"> <li>Training – 01</li> <li>Workshop- 02</li> <li>Member of Professional Society – 02</li> </ul>

Sr. No.	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field Years	Professional-Licensure	Certificate Honors / Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contribute to effective teaching and students learning outcome
<b>Department of Agril. Extension Education</b>								
1	2018-19 to 2022-23	<b>Dr R.D. Ahire</b>	Head, Ph.D.	20	02	02	--	--
2	2018-19 to 2022-23	<b>Dr R.P. Kadam</b>	Professor Ph.D.	18	10	02	SAS Fellow,	1. Chief Hostel warden, 2. Coordinator, CAM, 3. Nodal Officer NAHEP
3	2018-19 to 2022-23	<b>Dr. S.R. Jakkawad</b>	Asso. Prof. Ph.D.	19	05	01	--	--
4	2018-19 to 2021-22	<b>Dr JV Ekale</b>	Asso. Prof. Ph.D.	39	02	--	--	--
5	2018-19 to 2020-21	<b>Dr P.R. Deshmukh</b>	Asso. Prof. Ph.D.	18	03	--	--	--
6	2018-19 to 2022-23	<b>Dr PS Kapse</b>	Asso. Prof. Ph.D.	15	04	02	Expert in LMS, E-Content Development and Social Media management	Nodal Officer and Master Trainer of Agri- Diksha
7	2018-19 to 2021-22	<b>Dr. MI Khadge</b>	Asst. Prof. Ph.D.	26	03	--	--	--
8	2018-19 to 2020-21	<b>Dr. SG Puri</b>	Asst. Prof. Ph.D.	25	03	01	Creation of Blog and You-Tube channels	
9	2018-19 to 2022-23	<b>Prof. R.C. Sawant</b>	Asst. Prof. Ph.D.	27	03	--	--	--
10	2018-19 to 2022-23	<b>Dr. A.S. Lad</b>	Asst. Prof. Ph.D.	5.5	04	01	--	1. Assistant Hostel warden 2. Cultural Incharge
11	2018-19 to 2022-23	<b>Dr. M.V. Kulkarni</b>	Asst. Prof. Ph.D.	36	02	01	--	--

Sr. No.	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field Years	Professional-Licensure	Certificate Honors / Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contribute to effective teaching and students learning outcome
▪ <b>Department of Horticulture</b>								
1	2018-19 to 2022-23	<b>Dr. G.M. Waghamre</b>	Professor and Incharge Ph. D (Hort.)	30 Years	Yes		M.Sc. and Ph.D. teacher and guide Guided- 05 M.Sc. students and 01 Ph.D. student	<ul style="list-style-type: none"> <li>• 02 Joint AGRESO recommendation and one variety released.</li> <li>• Research papers- 08</li> <li>• Participation in Seminar/Symposia – 01</li> </ul>
2	2018-19 to 2022-23	<b>Dr. S.V. Dhutraj</b>	Assistant Professor Ph. D. (Agri.) Horticulture (Fruit Science)	13 years in Teaching, Research and Extension	Life member of sadhna <ul style="list-style-type: none"> <li>▪ Society for Agril Research on Abiotic Stress (SARAS), ICAR-NIASM, Baramati</li> </ul>	1. Excellence in Research in <i>VII<sup>th</sup> International Conference in hybrid mode on</i> Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2022), Birsa Agril University, Kanke Ranchi, Jharkhand	▪ M.Sc. students guided :11	<ul style="list-style-type: none"> <li>▪ Research Papers: 21</li> <li>▪ Book : 2</li> </ul>
3	2018-19 to 2022-23	<b>Dr. Lohakare A. S.</b>	Assistant Professor Ph. D. (Agri.) Horticulture (Fruit Science)	10 years in Teaching, Research and Extension	Life member of <ul style="list-style-type: none"> <li>▪ Indian Society for Arid Horticulture, ICAR-CIAH, Bikaner</li> <li>▪ Society for Agril Research on Abiotic Stress (SARAS), ICAR-NIASM, Baramati</li> </ul>	1. Young Scientist Award, in <i>VII<sup>th</sup> International Conference in hybrid mode on</i> Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2022), Birsa Agril University, Kanke Ranchi, Jharkhand	<ul style="list-style-type: none"> <li>▪ M.Sc. students guided :03</li> <li>▪ Member of SAC in M.Sc.: 05</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: 21</li> <li>▪ Book : 1</li> <li>▪ Popular Articles : 39</li> <li>▪ Technical Bulletin : 1</li> <li>▪ Folders: 6</li> <li>▪ Practical Manuals: 5</li> </ul>

4	2018 to 2022	<b>Dr.S.R.Barkule</b>	Assistant Professor Ph.D. (Horticulture)	16 Years In Teaching, Research and Extension	Life Member - Journal of Agriculture Research and Technology, Society for Agriculture Research on A biotic Stress	-	Students guided M.Sc.:04	<ul style="list-style-type: none"> <li>• Reasearch Papers : 14</li> <li>• Book :01</li> </ul>
5	2023	<b>R. D. Baghele</b>	Assistant Professor M.Sc. Horti. NET	05 years Teaching Research and Extension	Life member of Indian Society of Alliums, Pune Medicinal and Aromatic Plants Association of India, Anand (GJ)	1. Excellence in Research Award 2017-18	<ul style="list-style-type: none"> <li>▪ Students guided : M.Sc.: 04</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers:10</li> <li>▪ Book chapter : 02</li> </ul>
6		<b>Dr. B. M. Kalalbandi</b>	Associate Professor Ph. D. (Hort.)	15 years Teaching Research and Extension	Life member of <ul style="list-style-type: none"> <li>▪ Indian Society of Arid orticulture</li> </ul>	<ul style="list-style-type: none"> <li>▪ Nil</li> </ul>	<ul style="list-style-type: none"> <li>▪ Students guided : M.Sc.: 02</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: 09</li> <li>▪ Book : 02</li> </ul>
7		<b>Dr. V.V. Bhagat</b>	Assistant Professor Ph. D. (Agri.) Horticulture (Fruit Science)	17 years in Teaching,  3 year Research and Extension	Life member of <ul style="list-style-type: none"> <li>▪ Annals of plant physiology</li> <li>▪ Sadhana</li> <li>▪ CBEEs</li> </ul>	1. Women Scientist Award VIIth International conference in Hybrid mode on (GRISAAS-2022) Ranchi Jarkhand, India  2. Best Scientist Award in Horticulture 7 <sup>th</sup> International conference on (OCAEBGD-2022)	<ul style="list-style-type: none"> <li>▪ M.Sc. students guided :08</li> <li>▪ Member of SAC in M.Sc.: 04</li> <li>▪ Ph.D. students : 03</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: 09</li> <li>▪ Book : 01</li> <li>▪ Popular Articles : 02</li> <li>▪ Practical Manuals: 02</li> </ul>
8		<b>Dr. R. V. Bhalerao</b>	Assistant Professor Ph. D. (Agri.) Horticulture (Vegetable Science)	18 years in Teaching, Research and Extension	Society for Advancement of Human and Nature (SADHNA)	Nil	M.Sc. students guided :04 Member of SAC in M.Sc.: 06	Research Papers: 13 Book : 6 Popular Articles : 6 Technical Bulletin : 3 Practical Manuals: 5



Sr. No	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field	Professional Licensure	Certificate Honors/ Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contributes to effective teaching and students learning out cum
<b>▪ Department of Animal Husbandry &amp; Dairy Science</b>								
<b>1</b>	2018-19 to 2020-21	<b>Dr. G.K. Londhe</b>	Professor & Head Ph.D.	27	-	2	Number of Students guided (M.Sc./Ph.D.) - 35	<ul style="list-style-type: none"> <li>▪ Research papers published-40</li> <li>▪ Abstract published-45</li> <li>▪ Popular articles published - 25</li> <li>▪ Recommendation /Varieties released- 05</li> <li>▪ Trainings attended- 08</li> <li>▪ Conferences attended- 30</li> <li>▪ Book published – 02</li> <li>▪ ICT tools developed -10</li> <li>▪ Number of Project Handled - 05</li> </ul>
<b>2</b>	2018-19 to 2022-23	<b>Dr. S.G. Narwade</b>	Asso.c Prof.Ph.D.	14	--	Number of Honours & awards - 01	Number of Students guided (M.Sc./Ph.D.) - 20	<ul style="list-style-type: none"> <li>▪ Research papers published-48</li> <li>▪ Abstract published-85</li> <li>▪ Chapters published - 01</li> <li>▪ Popular articles published - 20</li> <li>▪ ICT tools developed - 04</li> <li>▪ Recommendation /Varieties released- 03</li> <li>▪ Trainings attended- 04</li> <li>▪ Conferences attended- 06</li> </ul>
<b>3</b>	2018-19 to 2020-21	<b>Dr. D.V. Bainwad</b>	Assoc. Prof. Ph.D.	11	-	-	Number of Students guided (M.Sc./Ph.D.) - 16	<ul style="list-style-type: none"> <li>▪ Research papers published-22</li> <li>▪ Abstract published-12</li> <li>▪ Project Handled - -</li> <li>▪ Recommendation /Varieties released- 01</li> <li>▪ Trainings attended-03</li> <li>▪ Conferences attended- 05</li> <li>▪ Popular articles published - 05</li> <li>▪ ICT tools developed - 05</li> </ul>
<b>4</b>	2018-19 to 2022-23	<b>Dr. R.A. Patil</b>	Asstt. Prof. Ph.D.	18		Number of Honours & awards - 01	Number of Students guided (M.Sc./Ph.D.) - 27	<ul style="list-style-type: none"> <li>▪ Research papers published-46</li> <li>▪ Abstract published-50</li> <li>▪ Popular articles published - 20</li> </ul>

					-			<ul style="list-style-type: none"> <li>▪ ICT tools developed - 12</li> <li>▪ Recommendation /Varieties released- 02</li> <li>▪ Trainings attended- 09</li> <li>▪ Conferences attended- 05</li> <li>▪ Book Published - 01</li> </ul>
5	2018-19 to 2022-23	<b>Dr. N.S. Kamble</b>	Asstt. Prof. Ph.D.	15	-	Number of Honours & awards - 02	Number of Students guided (M.Sc./Ph.D.) –07	<ul style="list-style-type: none"> <li>▪ Research papers published-15</li> <li>▪ Abstract published-06</li> <li>▪ Conferences attended- 03</li> <li>▪ Training Attended - 05</li> </ul>

Sr. No	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field	Professional Licensure	Certificate Honors/ Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contributes to effective teaching and students learning out cum
▪ <b>Department of Plant Pathology</b>								
1	2018-2023	<b>Dr.K.T.Apet</b>	Professor & Head Ph. D. (Agri.)	28 years Teaching Research and Extension	Life member of Indian Phytopathological Society, New Delhi Life member of Journal of plant Disease Sciences, Akola	03	<ul style="list-style-type: none"> <li>▪ Students guided :</li> <li>▪ Ph.D: 03</li> <li>▪ M.Sc: 07</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: 09</li> <li>▪ PopularArticles : 04</li> </ul>
2		<b>Dr.K.D.Navgire</b>	Associate Professor	26 years Teaching Research and Extension	Life member of Journal of plant Disease Sciences, Akola	--	<ul style="list-style-type: none"> <li>▪ Students guided :</li> <li>▪ Ph.D: 02</li> <li>▪ M.Sc: 04</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: Nil</li> </ul>
3		<b>Dr.V.M.Gholve</b>	Associate Professor	16 years Teaching Research and Extension	<ul style="list-style-type: none"> <li>▪ Life member of Indian Mycological Society, Kolkatta</li> <li>▪ Life member of Indian Phtopathological Society, New Delhi.</li> <li>▪ Life member of Trends in Biosciences.</li> <li>▪ Life member of Journal of plant Disease Sciences, Akola</li> </ul>	04	<ul style="list-style-type: none"> <li>▪ Students guided :</li> <li>▪ Ph.D: 05</li> <li>▪ M.Sc: 10</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: 10</li> <li>▪ PopularArticles : 06</li> </ul>

					<ul style="list-style-type: none"> <li>Life member of Advances in Life Sciences.</li> <li>Life member of Hind Agricultural Research &amp; Training Institute</li> </ul>			
4		<b>Dr.C.V. Ambadkar</b>	Assistant Professor	16 years Teaching Research and Extension	<ul style="list-style-type: none"> <li>Life member of Indian Phytopathological Society, New Delhi</li> <li>Life member of Journal of plant Disease Sciences, Akol</li> </ul>	02	<ul style="list-style-type: none"> <li>Students guided :</li> <li>Ph.D: M.Sc: 09</li> </ul>	<ul style="list-style-type: none"> <li>Research Papers: 21</li> <li>Popular Articles : 02</li> </ul>
5		<b>Dr.M.G.Patil</b>	Assistant Professor	16 years Teaching Research and Extension	<ul style="list-style-type: none"> <li>Life member of Indian Phytopathological Society, New Delhi</li> <li>Life member of Journal of plant Disease Sciences, Akola</li> </ul>	02	<ul style="list-style-type: none"> <li>Students guided :</li> <li>Ph.D: M.Sc: 08</li> </ul>	<ul style="list-style-type: none"> <li>Research Papers: 08</li> <li>Popular Articles : 08</li> </ul>
6		<b>Dr. M.S. Dadke</b>	Asso. Professor Ph. D. (Agri.)	18 years Teaching Research and Extension	<ul style="list-style-type: none"> <li>Life member of Indian Phytopathological Society, New Delhi.</li> <li>Society of Plant Protection Sciences, Division of Nematology, IARI, New Delhi</li> <li>Association of Plant Pathologist (Central India), Department of Plant Pathology, Dr. PDKV, Akola</li> <li>Association for the Improvement in Production and Utilization in Banana, National Research Centre on Banana, Tiruchirapalli.</li> </ul>	Nil	<ul style="list-style-type: none"> <li>Students guided :</li> <li>Ph.D: Nil M.Sc: 05</li> </ul>	<ul style="list-style-type: none"> <li>Research Papers: 01</li> </ul>

Sr. No	Year	Name of faculty	Designation / Highest qualification	Related work experience in the field	Professional Licensure	Certificate Honors/ Awards	Continuous documented excellence in teaching	or other demonstrated competencies and achievements that contributes to effective teaching and students learning out cum
<b>▪ Department of Soil Science &amp; Agril. Chemistry</b>								
1	2018-19 to 2022-23	<b>Dr. Syed Ismail</b>	Head / ADP Ph.D.(Agri.)	33 years	1. Indian Society of Soil Science, New Delhi 2. Indian Society of Citriculture, Nagpur 3. Indian Society of Soil Survey and Land Use Planning, Nagpur 4. Indian Society of Arid Legumes, Jodhpur 5. Indian Society of Agricultural Sciences, New Delhi.	1. ICAR sponsored Best Teacher's Award by Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani (2015) 2. Radhakishan Shanti Malhotra Award for outstanding research work in identification of beneficial soil nutrient mobilizing cultures , their large scale production and supply to farmers in the form of liquid biofertilizers by VNMKV(2015) 3. Samaz Bhushan puraskar by Maratha Seva Sangh, Parbhani for research contribution in Agriculture (2014) 4. ICRISAT, Hyderabad conferred special recognition for work carried out in farmers participatory international project (2009) 5. State level "Mridagandha Puraskar" for work related to soil health (2015) 6. Silver medal of Indian Society of Soil Science Parbhani chapter for best PG research dissertation, PCISSS, VNMKV 7. <i>Best oral/poster presentation awards in seminars: 04</i>	•No. of students guided as major advisor: •Total :32 •Ph.D. (SSAC) : 08 •M.Sc. (Agri) SSAC : 30 •M.Sc. (Agril. Biotechnology ) :04	<ul style="list-style-type: none"> <li>• Research Papers-97</li> <li>• Books-20</li> <li>• Recommendations- 12</li> <li>• Conference full Papers-25</li> <li>• Popular articles in English-05</li> <li>• Papers Presented In seminars International -09</li> <li>• National -38</li> <li>• State Level -90</li> <li>• Lead Papers Presented -08</li> <li>• TV talk – 05</li> <li>• Radio Talks-09</li> <li>• Folders- 15</li> <li>• Popular articles in Marathi-62</li> </ul>
2	2018-19 to 2022-23	<b>Dr. P.H.Vaidya</b>	Professor & Head/	20 year Teaching , Research and	1. Councillor (2015-17) of Executive Council of Indian Society of soil survey and	1. Young Scientist Award "Astha Foundation " RVSKVV Gwalior (MP)	<ul style="list-style-type: none"> <li>•M.Sc. Student Guided -32</li> <li>•Ph.D. Student Guided 01</li> <li>•Prepared practical manuals</li> </ul>	<ul style="list-style-type: none"> <li>• Research Papers-70</li> <li>• Books- 09</li> <li>• Book Chapters -04</li> </ul>

	Entire Carrier			Extension	<p>Land Use Planning, Nagpur</p> <p>2. Joint Secretary ( 2018-20) of Executive Council of Indian Society of soil survey and Land Use Planning, Nagpur</p> <p>3. Councillor (2019-21) of Executive Council of Indian Society of Soil ScienceLife memberof Journal of Agriculture Research Technology, Pune</p> <p>4. Life Member of ISSS&amp;LUP (NBSS &amp; LUP), (ICAR), Nagpur</p> <p>5. Life member of Indian Society of Dry land Agriculture, CRIDA, Hyderabad.</p> <p>6. Life Member of Society of Scientific Development Meerat (UP)</p> <p>7. Life member of GKV Society Agra</p>	<p>2. Out Standing Achievement Award(2015) PJTSAU, Hyderabad</p> <p>3. Distinguish Scientist award PJTSAU, Hyderabad</p> <p>4. Fellow Award of Scientific Society (2)</p> <p>5. Best Poster Presentation Award ( 05)</p> <p>6. Best Oral Presentation Award ( 02)</p>	, class notes technical charts and PPTs – 20s	<ul style="list-style-type: none"> <li>• Recommendations- 07</li> <li>• Technical papers - 20</li> <li>• Abstract published 110</li> <li>• Seminar Participations- 36</li> <li>• Lecture /Invited talks - 26</li> <li>• Radio talks -08</li> <li>• Marathi popular articles - 54</li> <li>• Folders - 10</li> </ul>
3	2018-19 to 2022-23	<b>Dr. A.L.Dhamak</b>	Associate Professor Ph. D. (Agri.)	19 years Teaching Research and Extension	<p>Life member of</p> <ul style="list-style-type: none"> <li>▪ Indian Society of Soil Science</li> <li>▪ Indian Society of Soil Survey and Land Use Planning.</li> </ul>	---	<ul style="list-style-type: none"> <li>▪ Students guided :</li> <li>▪ Ph.D.: 03</li> <li>▪ M.Sc.: 20</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: 53</li> <li>▪ Book : 06</li> <li>▪ Papers in seminar/symposia:61</li> <li>▪ Popular Articles : 25</li> <li>▪ Bulletin : 04</li> <li>▪ Folders :05</li> </ul>
4	2018-19 to 2022-23	<b>Dr. M. S. Deshmukh</b>	Assistant Professor Ph. D. (Agri.)	15 Years Teaching Research and Extension	<ul style="list-style-type: none"> <li>▪ Annual member of Indian Society of Soil Science, New Delhi</li> </ul>	<ul style="list-style-type: none"> <li>▪ Certificate of Appreciation (2018) by Hon. Vice- chancellor, VNMKV, Parbhani</li> <li>▪ Certificate of Appreciation (2022) by Hon. Vice- chancellor, VNMKV, Parbhani</li> </ul>	<ul style="list-style-type: none"> <li>▪ Students guided : M.Sc.(Major Advisor): 15 M.Sc.(Member Advisory Committee ):40 PhD (Member Advisory Committee):5</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers:30</li> <li>▪ Abstracts: 25</li> <li>▪ Book : 03 Bulletin : 03</li> <li>▪ Popular Articles : 30</li> <li>▪ Conference proceeding as full paper-05</li> <li>▪ Extended summary -05</li> </ul>
5	2018-19	<b>Dr. S.L.</b>	Assistant	18 years	Life member of	<ul style="list-style-type: none"> <li>▪ Best Doctoral Research</li> </ul>	<ul style="list-style-type: none"> <li>▪ Students guided M.Sc.: 16</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers: 31</li> </ul>



	to 2022-23	<b>Waikar</b>	Professor Ph. D. (Agri.)	Teaching Research and Extension	<ul style="list-style-type: none"> <li>Agro-pedology .</li> <li>Annual member of Indian Society of Soil Science, New Delhi</li> </ul>		<ul style="list-style-type: none"> <li>M.Sc.(Member Advisory Committee ):28</li> <li>PhD (Member Advisory Committee):4</li> <li>Prepared practical manuals, class notes technical charts and PPTs – 20s</li> </ul>	<ul style="list-style-type: none"> <li>Book : 05</li> <li>Popular Articles : 44</li> </ul>
6	2018-19 to 2022-23	<b>Dr. B. R. Gajbhiye</b>	Assistant Professor Ph.D. (Agri.)	15 years Teaching Research and Extension	Life member of 1. Journal of Agriculture Research & Technology 2. Indian society of soil survey and land use planning 3. Indian association of soil and water conservationist 4. Advances in life sciences 5. Society of agricultural research and social development 6. Maharashtra society of agricultural economics 7. Agricolation magazine cum e-Newsletter 8. Indian society of dryland agriculture 9. Annual Member Indian society of soil science	1. Certificate of Appreciation (2017) by Hon. Vice- chancellor, VNMKV, Parbhani 2. Certificate of Appreciation (2019) by Director of Instruction and Dean, VNMKV, Parbhani 3. Young Scientist Award (2019) by Society of Agricultural Research and Social Development, New Delhi 4. Certificate of Appreciation (2020) by Vellore Institute of Technology School of Agricultural Innovation and advanced learning, Bihar 5. Agrocure Idol Award (2020) by Agrocure Krushimanch, Nashik 6. National Agri Youth Award (2021) by Swyam Foundation, Nashik 7. Scientist of the year-2021 by The Society of Tropical Agriculture, New Delhi, India 8. Excellence in Research (2022) by Research Wing for Excellence in Professional Education and Industry, Bangalore	<ul style="list-style-type: none"> <li>Students guided M.Sc.: 17</li> </ul>	<ul style="list-style-type: none"> <li>Research Papers: 37</li> <li>Conference proceeding as full paper-01</li> <li>Extended summary -02</li> <li>Abstracts-52</li> <li>Book : 01</li> <li>Book chapter-01</li> <li>PopularArticles : 20</li> </ul>
7	2018-19 to 2022-23	<b>Dr.P. H. Gourkhede</b>	Assistant Professor Ph. D. (Agri.)	11 years Teaching Research and Extension	<b>Life member of</b> 1. Trends in Biosciences 2. Indian society of soil survey and land use planning 3. Advances in Life Sciences. 4. Indian society of dryland	1. Best Poster Presentation, 2016 by ECOASPECT-2016 2. Best Paper Presentation ICAHPS-2017 3. Young Scientist Award 2017 IJTA & Serial Publication, New Delhi	<ul style="list-style-type: none"> <li>Students guided : M.Sc. (Major Advisor): 04 M.Sc. (Member Advisory Committee):25 Ph.D. (Member Advisory Committee):3</li> </ul>	<ul style="list-style-type: none"> <li>Research Papers: 51</li> <li>Conference proceeding as full paper-06</li> <li>Extended summary -04</li> <li>Abstracts-100</li> <li>Book : 11</li> </ul>

					agriculture 5. Journal of Agriculture Research & Technology 6. Annual Member Indian society of soil science	4. Maharashtra ShikshanRatnyaPuraskar 2018 Raj Vaidya Social foundation, Maharashtra 5. VasantNaik award for research application in agriculture 2018 ICAR, New Delhi 6. Agrocare Award 2018 Agrio care Krushimanch, Nashik 7. Training Organised : 07 8. Lecture Delivered : 42		<ul style="list-style-type: none"> <li>▪ Book chapter-06</li> <li>▪ PopularArticles : 102</li> <li>▪ Technical Bulletins: 12</li> <li>▪ Pomplet Folder: 25</li> </ul>
8	2018-19 to 2022-23	<b>Dr. S. P. Zade</b>	Assistant Professor Ph. D. (Agri.)	06 years Teaching Research and Extension	1. Indian Society of Soil Science Annual Membership <b>Life Member</b> 2. The Arid Zone Research 3. Association of India 4. Indian Association of Soil and Water conservationists 5. Indian Society of Soil Survey and Land Use Planning 6. Journal of Agriculture Research & Technology 7. Forum of Plant Physiologists	1. Recipient of Best Thesis Award "Dr. Wasudeo Balwant Rahudkar Silver Medal (1999) M.Sc. (Agril) 2. Excellence in Teaching Award.International Conference on (GRISAAS-2019)20-22 October 2019 at ICAR-National Academy of Agricultural Research Management, Hyderabad, Telangana (India) 3. Best Poster Presentation Award at 86 <sup>th</sup> Annual Convention of ISSS on 17 Nov. 2022 at Rahuri.	<ul style="list-style-type: none"> <li>▪ Students guided :</li> <li>▪ M.Sc.(Major Advisor): 4</li> <li>▪ M.Sc. (Member Advisory Committee ):12</li> <li>▪ PhD (Member Advisory Committee):2</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers:17</li> <li>▪ Abstracts: 25</li> <li>▪ Book : 2</li> <li>▪ Book Chapter: 3</li> <li>▪ Popular Articles : 7</li> <li>▪ Bulletin : 01</li> </ul>
9	2018-19 to 2022-23	<b>Dr. S.V. Chikse</b>	Assistant Professor Ph. D. (Agri.)	04 years Teaching Research and Extension	1. Indian Society of Soil Science	--	<ul style="list-style-type: none"> <li>▪ Students guided : M.Sc.(Major Advisor: 1 M.Sc.(Member Advisory Committee ):2</li> <li>▪ PhD (Member Advisory Committee):0</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research Papers:2</li> <li>▪ Popular Articles : 2</li> </ul>
10	2018-19 to 2022-23	<b>Dr. S.R. Pillewad</b>	Assistant Professor Ph. D. (Agri.)	1.5 years Teaching Research and Extension	1. Indian Society of Soil Science	--		<ul style="list-style-type: none"> <li>▪ Research Papers:05</li> <li>▪ Popular Articles : 5</li> </ul>

#### 6.5.2.4 Technical and Supporting staff:

Details of the posts of Technical and Supporting Staffs for field experimentation work/ laboratory work/ garden work along with list of existing non teaching staff of this college are shown as under.

##### Details of Technical and Supporting Staff

Sr. No	Year	Sanctioned Staff*	Sanctioned staff	Staff in place	Vacant position	Faculty recommended by the ICAR for 60 intake (college has 210 intake)	Deviation**
1	2018-19	Technical (SRA/JRA/Agril.Asstt.)	72	42	30	11	381.82
2		Supporting including farm and filed workers	373	221	152	32	690.62
1	2019-20	Technical (SRA/JRA/Agril.Asstt.)	72	48	24	11	436.36
2		Supporting including farm and filed workers	373	185	188	32	578.12
1	2020-21	Technical (SRA/JRA/Agril.Asstt.)	72	50	22	11	454.54
2		Supporting including farm and filed workers	373	142	231	32	443.75
1	2021-22	Technical (SRA/JRA/Agril.Asstt.)	72	48	21	11	436.36
2		Supporting including farm and filed workers	373	142	231	32	443.75
1	2022-23	Technical (SRA/JRA/Agril.Asstt.)	72	53	19	11	481.82
2		Supporting including farm and filed workers	373	126	247	32	393.75

\*The need of supporting staff is fulfilled by appointing contractual staff.

#### 6.5.3 Learning resources:

Learning resources are texts, videos, software and other ICT enabled material that teachers use to teach the students and to meet the expectations for learning defined by ICAR recommended curricula is furnished as under.

##### 6.5.3.1 College library (digital):

The Central University library is in the premises of college and very near to the college building. Students and staff members are exclusively using central library facilities, in addition to this each department is having reading room facilities which cater the need of some important titles of text books and reference books. The thesis depositories are also maintained in each department.

Availability of Wi-Fi, sufficient books, reading material, Periodical, Research Journals, Internet with computers, Latest publications in the field of relevant field, automation and user Services through computer, subscription of journals of national and international repute, national dailies, magazines etc. are available as below.

**Details of Textbooks/ Technical material/ practical manual, reading material**

Sr.No	Particulars	TOTAL
1.	Text/technical/Marathi book	89000
2.	Apps	09
3.	Practical Manual	60
4.	Power point presentation	All Courses
5.	Video	35
6.	Software/forecasting model	05
7.	ICT Tools	10



**Use of RFID**

- The university library has installed RFID system from the ICAR grants.
- RFID is proven useful for the smooth functioning of the book lending activities i.e self check-in and self check-out facilities for the library users.

RFID Self Issue Kiosk

RFID Self Return Trolley





Computer Lab



OPAC



Book Circulation Counter



Dr. APJ Abdul Kalam Inspiration Center



Dr. APJ Abdul Kalam Inspiration Center



Dr. APJ Abdul Kalam Inspiration Center

### College Library Available Facility





#### **6.5.3.2 Laboratories, Instructional farm, Workshops, Diary Plant, Veterinary Clinic, Hatchery ponds etc.:**

At present three degree programmes B.Sc. (Hons.) Agri, M.Sc. (Agri) and Ph.D.(Agri) are successfully running in the college through 11 departments. Laboratories of all the departments are well equipped with the instruments required which are developed through ICAR grants and university grants sanctioned from time to time. The postgraduate students are allotted research topic for their completion of M.Sc. (Agri) and Ph.D.(Agri) degree programme under the chairmanship of their respective faculties. The research topics are decided in the Board of Studies of respective departments, which are based on location specific problems. Postgraduate laboratories are well equipped with most sophisticated instruments.

Sr. No	Particulars	Number	Space	Capacity	Speciality to conduct practical/ hands on training
<b>Department of Agronomy</b>					
1	Laboratory UG	02	1200sq. ft.	40	• Seed, fertilizer, manure, weedicides, Models of IFS and Vermicompost, implement and tools, Weed and herbicides charts.
2	Laboratory PG	01	1200sq. ft.	40	• Irrigation and nutrients
3	Laboratory PG	01	1200sq. ft.	40	• Micro irrigations
4	Instructional Farm	01	4 ha.	40	• RAWE / ELP/ Student READY Programme (RAWE & AIA/ ELM) Crop cafeteria for <i>Kharif</i> and <i>Rabi</i> crop, Field demonstration
5	Ponds	01	30x30x3 m	40	• Protective irrigation
<b>Department of Agril. Botany</b>					
1	Laboratory UG	02	12M X8 M	40	• Seed Testing • Estimation of chlorophyll • seed germination
2	Laboratory PG	01	12M X8 M	40	• Micropropagation Techniques in banana • Gel electrophoresis • Cytological studies • Drought Studies • Molecular studies
3	Instructional Farm	01	02ha	40	• Micro irrigation Facilities
<b>Department of Animal Science &amp; Dairy Science</b>					
1	Laboratory UG	01	12M X8 M	40	• Milk physioco- chemical properties
2	Laboratory PG	01	12M X8 M	40	• Milk physioco- chemical properties
3	Goat shed	01	40M X20 M	40	--
4	Cattle shed	01	40M X20 M	40	--
5	Instructional Farm	01	20ha	40	• Micro irrigation Facilities
<b>Department of Agricultural Economics</b>					
1	Laboratory	05	60 x 40 ft	40	• Analytical work for micronutrients, heavy metals and total organic carbon content.
2	Instructional Farm	01	01ha	40	• Preliminary trial on organic farming
<b>Department of Agricultural Meteorology</b>					
1	Meteorology observatory	01		40	• Hands on Agro Meteorological instrument to students. • Hands on Agro Meteorological weather parameters for students. • Hands on INFOCROP model and DSSAT modal for PG students. • Hands on analytical data for weather parameters for PG students.
<b>Department of Agricultural Entomology</b>					
1	Laboratory	06	12M X8 M	40	• Insect anatomy studies
2	Instructional Farm	01	2.40 ha	40	• Irrigation facility throughout the year
<b>Department of Agricultural Engineering</b>					
1	Computer Laboratory	01	10m x 7.6m = 76 m <sup>2</sup>	40	• Computer Practicals
2	Farm Power and Machinery laboratory	01	9m x 7.6m = 68.4 m <sup>2</sup>	40	• Farm Power and Machinery Practical

3	Soil water conservation including Surveying laboratory	01	7.7m x 4.7m = 36.19 m <sup>2</sup>	40	<ul style="list-style-type: none"> <li>• Soil water conservation Practicals</li> <li>• Surveying Practicals</li> </ul>
4	Green house and Protected cultivation laboratory	01	7.7m x 4.7m = 36.19	40	<ul style="list-style-type: none"> <li>• Green house and Protected cultivation practicals</li> </ul>
<b>Department of Agril. Extension Education</b>					
1	Laboratory	04 Villages as Laboratory for practical's	-	40	<ul style="list-style-type: none"> <li>• In all 04 villages in college extension block are identified as laboratory for UG/PG and Ph.D. students. Related excersise are conducted in the villages and according to demand of teacher the vehical or any means are arranged for student.</li> </ul>
<b>Department of Horticulture</b>					
1	Laboratory	01	600Sqf.	40	<ul style="list-style-type: none"> <li>• All Chemical analysis, All Quality parameters, Colour analysis, O<sub>2</sub>&amp;CO<sub>2</sub></li> <li>• Measuring respiration</li> <li>• Excretion of pulp, Juice, Drying of fruits and vegetable,</li> </ul>
2	Laboratory	02	300Sqf.	40	<ul style="list-style-type: none"> <li>• Microbial of analysis of fresh fruits and vegetables and processed products</li> </ul>
3	Instructional Farm	01	28ha.	40	<ul style="list-style-type: none"> <li>• Conducted all PG and Ph.D. students' research trials.</li> </ul>
<b>Department of Plant Pathology</b>					
1	Laboratory UG	01	30x20 sq.ft.	40	<ul style="list-style-type: none"> <li>• Isolation of microorganisam</li> </ul>
2	Laboratory PG	01	30x20 sq.ft. each	40	<ul style="list-style-type: none"> <li>• Research studies of PG Students</li> </ul>
3	Laboratory PG	01	30x20 sq.ft. each	40	<ul style="list-style-type: none"> <li>• Research studies of Ph.D. Students</li> </ul>
4	Bio control unit	01		--	<ul style="list-style-type: none"> <li>• Preparation of bio mix a bio fungicide</li> </ul>
5	Screen house	01		40	<ul style="list-style-type: none"> <li>• Screen the research materials</li> </ul>
6	ELM Mushroom unit	01		40	<ul style="list-style-type: none"> <li>• Experiential learning UG programme.</li> </ul>
<b>Department of Soil Science</b>					
1	Central Instrumentation Cell	01	60 x 40 ft	20	<ul style="list-style-type: none"> <li>• Hands on training to post graduate students on analytical work for micronutrients, heavy metals and total organic carbon content.</li> <li>• No, profit no loss service to farmers.</li> </ul>
2	CIC-II/ PG Lab	01	50 x 30 ft	40	<ul style="list-style-type: none"> <li>• Soil pH, EC, OC, CaCO<sub>3</sub>, N, P, K determination</li> </ul>
3	UG -I	01	60 x 40 ft	40	<ul style="list-style-type: none"> <li>• Soil pH, EC, OC, CaCO<sub>3</sub> Determination</li> </ul>
4	UG-II	01	60 x 40 ft	40	<ul style="list-style-type: none"> <li>• Reducing and Non reducing sugar determination, Carbohydrate, Crude fat or oil from grain sample</li> </ul>
5	Soil Physics Laboratory	01	50 x 30 ft	20	<ul style="list-style-type: none"> <li>• Soil Physical Analysis i.e soil aggregation, Particle size distribution etc.</li> </ul>
6	ELM Unit	01	60 x 40 ft	40	<ul style="list-style-type: none"> <li>• Catering practical knowledge of soil testing and interpretation to experiential learning students</li> </ul>
7	Instructional Farm	01	4 ha.	40	<ul style="list-style-type: none"> <li>• Crop cafeteria for <i>Kharif</i> and <i>Rabi</i> crop, Field demonstration</li> </ul>

**Instructional Farm and facilities available:**

The college has 114.17 ha land and crop cafeteria for post graduate and Ph.D. research work, for conduct of UG and PG practicals, seed production purpose and ELP/ELM units. The various structures and irrigation facilities required for the purpose are available on the farm which includes poly houses, green house structures, shade nets, weels, tubewells etc. The most important instruments, equipments available on the college farm are tractor drawn plough, disc harrow, blade harrow, cultivator, rotavator, seed cum fertilizer unit etc. Drip irrigation and sprinkler irrigation facilities are also available. Composting unit as well as vermin compost units are available to utilize farm waste material which is used for PG and Ph.D. research trials conducted on instructional farms.

**Facilities available on instruction farm for research and practicals.**

Sr. No.	Facilities available on instruction farm	Quantity
1	Tractors with trolley	02
2	Green house structures	02
3	Tunnel house	02
4	Screen house	01
5	Poly house	02
6	Wells	06
7	Tube wells	12
8	Sprinkler and drip irrigarion sets (Agronomy, Horticulture, Agril. Botany)	03

**6.5.3.3 Student READY/in plant Training/Internship/Experiential Learning****Programmes:****Implementation of student READY (Rural Entrepreneurship Awareness Development Yojana):**

The student READY is being implemented for the students admitted from 2017 onwards.

Student READY constitutes two componants viz. RAWE and AIA in 7<sup>th</sup> Semester and two moudles to each student in the 8<sup>th</sup> semester. Under student, READY programme students are exposed to village attachment, clinic attachment, Unit attachment and Agro Industrial attachment to make the students more practical to the real world situation. In the 8<sup>th</sup> semester allotment of modules to the students is given for increasing entrepreneurship skills among the students which leads to development of skilled human resource.

**Yearwise number of students allotted and completed RAW E programme as per 4<sup>th</sup> Dean's syllabus.**

Sr. No.	Year	Number of students allotted and completed RAW E programme
1	2018-2019	208
2	2019-2020	185
3	2020-2021	143+70

**Year wise number of students allotted and completed RAW E & AIA programme as per 5<sup>th</sup> Dean's syllabus.**

As per the 5<sup>th</sup> Dean's committee the newly designed RAW E & AIA programme is started from 2021-22 for 1<sup>st</sup> batch of 5<sup>th</sup> Dean's committee (Admitted 2017). This new programme has given the students more exposure to field, units, Agri-clinics and industrial attachments. The students from College of Agriculture, Parbhani are attached to more than 20 villages and 15 agro-industries.

Sr. No.	Year	Number of students allotted and completed RAW E & AIA programme
1	2021-2022	302+24
2	2021-2023	257+2

**External and internal evaluation and monitoring system of RAW E programme.**

Head, Department of Extension Education is the Programme coordinator for RAW E and AIA programme who is appointed by Associate Dean & Principal of the College. Programme Coordinator of the RAW E programme proposed the names of subject matter specialist for guiding the students and mid evaluation. Director of Instruction and Dean constitutes a team for conduct the examination of RAW E students and their evaluation.

**Experiential Learning programme**

The experiential learning programme is implemented since the academic year 2010-11 during VIII semester. Twenty to thirty students are admitted in the experimental learning module as per the preference and merit. Director of Instruction and Dean nominates faculty members of various disciplines as Dean's nominee to supervise and monitor the experiential learning programmes running at various departments. At the end evaluation team is formed by Director of Instruction and Dean which evaluates the performance of the students and grading of students.

**Concept of experiential learning**

Learning to do,

Doing to Learn,

Earning to living,

Living to serve



**Objectives of experiential learning**

- i) To train manpower with more practical orientation to cater the needs of public, private and corporate sectors in Agriculture.
- ii) To impart knowledge and training in inter disciplinary production oriented courses in Agriculture.
- iii) To provide experiential learning and hands-on-training for developing entrepreneurial skill for being job provider rather than jobseekers.

**B.Sc. Agriculture**

Sr. No.	Year	Name of ELP	Profit sharing mechanism (amount)	No. of students for ELM
1	2018-19	AEL-AGRO-4813	--	42
2		AEL-PATH-486	--	30
3		AEL-ASDS-486	--	27
4		AEL-HORT-486	--	44
5		AEL-ENTO-486	--	36
6		AEL-SSAC-485	--	29
		<b>Total</b>	--	<b>208</b>

Sr. No.	Year	Name of ELP	Profit sharing mechanism (amount)	No. of students for ELM
1	2019-20	AEL-AGRO-4813	--	33
2		AEL-PATH-486	--	32
3		AEL-ASDS-486	--	29
4		AEL-HORT-486	--	33
5		AEL-ENTO-486	--	24
6		AEL-SSAC-485	--	34
		<b>Total</b>	--	<b>185</b>

**B.Sc. (Hons.) Agriculture**

Sr. No.	Year	Name of ELP	Profit sharing mechanism (amount)	No. of students for ELM
1	2020-21	ELM-AGRO-4814	--	25
2		ELM-AHDS-485	--	
3		ELM-AHDS-486	--	
4		ELM-SSAC-485	--	34
5		ELM-ENTO-486	--	
6		ELM-HORT-4813	--	
7		ELM-HORT-4812	--	35
8		ELM-BOT-481	--	
9		ELM-PATH-486	--	34
10		ELM-ENTO-488	--	
		<b>Total</b>	--	<b>153</b>

Sr. No.	Year	Name of ELP	Profit sharing mechanism (amount)	No. of students for ELM
1	2021-22	ELM-AGRO-4814	--	57
2		ELM-SSAC-485	--	
3		ELM-AHDS-485	--	
4		ELM-AHDS-486	--	53
5		ELM-ENTO-488	--	
6		ELM-ENTO-486	--	88
7		ELM-HORT-4813	--	
8		ELM-HORT-4812	--	52
9		ELM-BOT-481	--	
10		ELM-PATH-486	--	52
		<b>Total</b>	--	<b>302</b>

Sr. No.	Year	Name of ELP	Profit sharing mechanism (amount)	No. of students for ELM
1	2022-23	ELM-ENGG-485	--	45
2		ELM-SSAC-485	--	
3		ELM-AHDS-485	--	
4		ELM-AHDS-486	--	46
5		ELM-ENTO-488	--	
6		ELM-ENTO-486	--	47
7		ELM-HORT-4813	--	
8		ELM-HORT-4812	--	32
9		ELM-BOT-481	--	
10		ELM-PATH-486	--	49
		<b>Total</b>	--	<b>219</b>



Different milk products prepared at ELP Unit



**Goat Training for farmers**



**Participation of ELP students in Mahila Krushi Melawa (3 January)**

#### 6.5.3.4 Curricula Delivery through IT (smart class rooms/interactive board etc.):

The college is providing very good educational atmosphere to the students by providing well-equipped classrooms. Smart classroom having K-YAN, LCD and Interactive software based System and digital podium with mic facilities for postgraduate students with modern furniture. Displayed informative charts related to courses for teaching and practical's. The college of Agriculture has **forty classrooms** out of which **fourteen classrooms** are supported with smart teaching facilities

#### 6.5.4 Student Development:

Student Development at the College directs its educational efforts a fostering the intellect and character of students by integrating in class and co-curricular experiences. To accomplish this, the College provides a wide range of educational experiences through programs and activities that complement and support the academic experience in the classroom.

##### 6.5.4.1 Student Intake and Attrition:

The details of the student's intake and attrition across different degree programmes running at this college during last five years are mentioned as under.

##### Student's intake attrition in the programme for last five years:

Name of degree programme	*Sanctioned strength	Actual student admitted in last five years					Attrition (%)				
		2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
B.Sc. (Hons) Agri.	210 (2018-21) 120 (2022-23)	200	237	228	232	146	09 (4.5%)	12 (12.83%)	11 (4.82 %)	09 (3.87%)	09 (6.46%)
M.Sc. (Agri.)	134	115	130	130	149	137	11 (9.56%)	08 (6.15%)	12 (9.23%)	09 (6.04%)	02 (1.45%)
M.Sc. (Horti.)	22	18	23	24	23	24	0	0	02 (8.33%)	0	0
Ph.D. (Agri.)	35	33	40	33	35	37	02 (5.71%)	04 (12.12%)	04 (12.12%)	0	01 (2.70%)
*20% seats for all Postgraduate Courses shall be filled in all India basis through Common Entrance Examination to be conducted by ICAR New Delhi (It includes 10% seats over and above the sanctioned intake capacity)											

**Degree courses running at this College and intake capacity of the students**

<b>Sr.No.</b>	<b>Degree course</b>	<b>Duration</b>	<b>Credit load</b>	<b>Intake capacity</b>
1.	B.Sc. (Hons.) Agri.	4 years (8 sem.)	176	120*
2.	M.Sc. (Agri.)	2 years (4 sem.)	55	124*
3.	M.Sc. (Hort.)	2 years (4 sem.)	50	19*
4.	M.Sc. (Agri.) BSMA	2 years (4 sem.)	70	124*
5.	M.Sc. (Hort.) BSMA	2 years (4 sem.)	70	19*
6.	Ph.D. (Agri.)	3 years (6 sem.)	75	27*
7.	Ph.D. (Agri.) BSMA	3 years (6 sem.)	--	27*

\* 20% seats are reserved for ICAR student it includes 10% over and above sanctioned intake capacity.

**Department wise M.Sc. (Agri.) and Ph.D. (Agri.) intake capacity**

<b>Sr. No.</b>	<b>Department</b>	<b>Intake capacity</b>	
		<b>M.Sc. (Agri.)</b>	<b>Ph.D.(Agri.)</b>
1	Agronomy	15	4
2	Agricultural Meteorology	12	-
3	Genetics and Plant Breeding, Plant Physiology and Seed Science & Technology	16	6
4	Animal Husbandry & Dairy Science	12	3
5	Agricultural Economics	12	3
6	Agricultural Entomology	13	3
7	Agricultural Extension Education	12	3
8	Plant Pathology	13	3
9	Soil Science	13	3
10	Horticulture	22	7
	<b>Total</b>	<b>140</b>	<b>35</b>



#### 6.5.4.2 Average Number of Students in Theory and Practical Classes:

The details of the average number of students in theory and practical classes are mentioned as under.

#### Average Number of Students in Theory and Practical Classes

Sr. No.	Name of the degree programme	Batch of students in theory class	Batch of students in practical class
<b>❖ Department of Agronomy</b>			
1	B.Sc. (Hons.)Agri.	75	40
2	M.Sc. (Agri.)	20	20
3	Ph.D.(Agri.)	10	10
<b>❖ Department of Genetics and Plant Breeding, Plant Physiology and Seed Science &amp; Technology</b>			
1	B.Sc. (Hons.)Agri.	75	40
2	M.Sc. (Agri.)	15	15
3	Ph.D.(Agri.)	05	05
<b>❖ Department of Animal Husbandry&amp; Dairy Science</b>			
1	B.Sc. (Hons.)Agri.	75	40
2	M.Sc. (Agri.)	13	13
3	Ph.D.(Agri.)	03	03
<b>❖ Department of Agril. Economics</b>			
1	B.Sc. (Hons.)Agri.	75	40
2	M.Sc. (Agri.)	12	12
3	Ph.D.(Agri.)	03	03
<b>❖ Department of Agril. Meteorology</b>			
	B.Sc. (Hons.)Agri.	75	40
	M.Sc. (Agri.)	13	13
	Ph.D.(Agri.)	02	02
<b>❖ Department of Agril. Entomology</b>			
1	B.Sc. (Hons.)Agri.	75	40
2	M.Sc. (Agri.)	14	14
3	Ph.D.(Agri.)	3	3
<b>❖ Department of Agril. Engineering</b>			
1	B.Sc. (Hons.)Agri.	75	40
<b>❖ Department of Agril. Extension Education</b>			
1	B.Sc. (Hons.)Agri.	75	40
2	M.Sc. (Agri.)	12	12
3	Ph.D.(Agri.)	03	03
<b>❖ Department of Horticulture</b>			
1	B.Sc. (Hons.)Agri.	75	40
2	M.Sc. (Agri.)	22	22
3	Ph.D.(Agri.)	07	07
<b>❖ Department of Plant Pathology</b>			
1	B.Sc. (Hons.)Agri.	75	40
2	M.Sc. (Agri.)	13	13
3	Ph.D.(Agri.)	03	03
<b>❖ Department of Soil Science</b>			
1	B.Sc. (Hons.)Agri.	75	40
2	M.Sc. (Agri.)	13	13
3	Ph.D.(Agri.)	03	03

#### **6.5.4.3 Admission process:**

##### **Mode of admission for B.Sc. (Hons.) Agri. degree programme**

The MCAER Pune implement and coordinate centralise online admission of UG with the help of CET cell government of Maharashtra. The details of admission procedure and schedule/calendar are given in the prospectus, which will be displayed on MCAER website. From 2017 onwards 100% weightage is given to the marks obtained by the students in CET examination conducted by Maharashtra CET cell.

##### **University quota (U quota), Maharashtra quota (M quota):**

For admission to under graduate courses, 70% seats of the admission capacity will be filled in from amongst the students who have passed the qualifying examination from the school or the institution situated in the University area (U quota) and remaining 30% seats will be kept open for all the students i.e. State quota (M quota). Admission to all the under graduate degree programme are on merit basis.

##### **Other State quota (OS)**

The 2% seats reserved for the candidates having the domicile of other State from India and whose parents have not stayed in Maharashtra State for minimum of three years within the period of ten years proceeding the admission year, such seats shall be termed as Other State Quota: OS quota.

##### **ICAR quota**

20% of the total seats for all U.G. courses shall be reserved to be filled in from all India basis through Common Entrance Examination to conducted by ICAR, New Delhi (it includes 10 % seats over and above the sanctioned intake capacity). This provision relates to constituent colleges. The constitutional reservation is followed as per directives of state government.

##### **Mode of admission for M.Sc. (Agri.) degree programme**

Since academic year 2005-06 the common Entrance Test (CET) is conducted by Maharashtra Agricultural University Examination Board, Pune for admission of the students to Post graduate degree programme in SAUs. 30% weightage of UG CGPA and 70% with weightage of CET marks is considered for admission to the PG degree programme.

The MCAER Pune coordinate, centralise online admission in SSAU of Maharashtra for PG.

### **U quota and M quota**

Out of total admissions 50% admissions are filled from U quota (from the candidates passed qualifying examination from colleges of University jurisdiction) and 50% from M quota from the students who have passed qualifying examination in Maharashtra State.

### **Other State quota (OS quota)**

The 2% seats reserved for the candidates having the domicile of other State from India and whose parents have not stayed in Maharashtra State for minimum of three years within the period of ten years proceeding the admission year, such seats shall be termed as Other State Quota: OS quota.

### **ICAR quota**

25% of the total seats for all M.Sc. courses shall be reserved to be filled in from all India basis through Common Entrance Examination to conducted by ICAR, New Delhi (it includes 10 % seats over and above the sanctioned intake capacity). This provision relates to constituent colleges.

The constitutional reservation is followed as per directives of state government.

### **Mode of admission for Ph.D. (Agri.) degree programme**

The MCAER, Pune implement and coordinate, centralise online admission for Ph.D. in SAU of Maharashtra. The minimum eligibility for getting admission for Ph.D. degree course in this institute is M.Sc. (Agri.) master degree in the concerned subject of the Agricultural Universities in Maharashtra or degree of any other related agricultural University recognised as equivalent. For admission to Ph.D. programme only M.Sc. CGPA is considered.

### **U quota and M quota**

Out of total admissions 50% admissions are filled from U quota from the candidates passed qualifying examination from colleges of University jurisdiction and 50% from M quota from the students who have passed qualifying examination in Maharashtra State.

### **Other State quota (OS)**

The 2% seats reserved for the candidates having the domicile of other State from India and whose parents have not stayed in Maharashtra State for minimum of three years within the period of ten years proceeding the admission year, such seats shall be termed as Other State Quota (OS quota).

**Student Reservation (%)**

Category	UG/ PG/ Ph.D.
General	50%
SC	13%
ST	7%
OBC	19%
Others (Specify)	11%

**System of Education**

The College adopted course credit system under the semester pattern. In this system each academic year is divided into two terms not less than 20 weeks called semester. Subjects to be taught are divided into self contained units called courses. These are taught in a semester through lecturers practicals, library reading, and field work assignments etc.

The students admitted to B.Sc. (Hons.) Agri. degree course have to complete one semester as rural work experience in the farmer field as per the recommendation of IV Dean's Committee report of ICAR, New Delhi. The getting hands on training the students are exposed to VIII semester for Experiential Learning Programme.

**Academic Regulations**

MCAER Pune is constituted under Section 12 of the Maharashtra Agricultural Universities (Krishi Vidyapeeth) Act, 1983 to coordinate educational activities in SAU of Maharashtra. Academic regulations for U.G., PG and Ph.D. are approved by the Maharashtra Council of Agricultural Education Research (MCAER), Pune. These rules are applicable to all the Agricultural Universities in the State, since 2011. The rules and regulations are approved by the Maharashtra Council of Agricultural Education and Research in its 84<sup>th</sup> and 86<sup>th</sup> meeting held on 25.7.2011 and 19.4.2012 vide Resolution NO.102/84/2011 and 4/86/2012 respectively. These regulations made available to the faculty of the College and also available on the web of University.

**Fees payment mechanism**

Presently College has adopted online fees payment mechanism which is faster and time saving for the students.

**College fees (Old Fees Structure) and other charges per year.**

College fees (Old Fees Structure) and other charges for year							
Sr. No	Item	B.Sc. (Agri.)		M.Sc.(Agri./Hort.)		Ph.D.(Agri.)	
		I term	II term	I term	II term	I term	II term
A) College fees.							
1	Tuition Fee	3000	3000	4000	4000	6000	6000
2	Registration fee	200	200	200	200	200	200
3	Eligibility Fee	100	--	200	200	200	--
4	College caution money	1000	--	1000	--	1000	--
5	Library fees	400	400	500	500	500	500
6	Subscription towards Students Council Activities						
	i) Sports, Gymkhana and allied activities.	500	500	500	500	500	500
	ii) Co-operative Society (Share + Membership fee)	100	--	100	--	100	--
	iii) Annual Prize Distribution Function	200	--	400	--	400	--
	iv) College magazine	200	--	200	--	200	--
	v) Ashwamedh Sport Fee	30	--	30	--	30	--
7	University Medical Examination Fee.	100	--	100	--	100	--
8	Identity Card	50	--	50	--	50	--
9	Student's Aid Fund	100	--	100	--	100	--
10	Grade Card	100	100	100	100	100	100
11	Examination Fee	1600	--	1600	--	1600	--
12	Student's safety insurance premium.	6	--	6	--	6	--
	<b>Total (A)</b>	<b>7686</b>	<b>4200</b>	<b>9086</b>	<b>5500</b>	<b>11086</b>	<b>7300</b>
<b>(B) Hostel</b>							
1	Hostel Caution money	1000	--	1000	--	1000	--
2	Maintenance charges	1000	1000	1000	1000	1000	1000
3	Electricity Charges	1000	1000	1000	1000	1000	1000
4	Mess deposit.	600	--	600	--	600	--
	<b>Total (B)</b>	<b>3600</b>	<b>2000</b>	<b>3600</b>	<b>2000</b>	<b>3600</b>	<b>2000</b>
	<b>Grand Total (A+B)</b>	<b>11286</b>	<b>6200</b>	<b>12686</b>	<b>7500</b>	<b>14686</b>	<b>9300</b>



**College fees (New Fees Structure) and other charges per year.**

Sr. No	Item	B.Sc. (Hons) Agri.		M.Sc. (Agri./Hort.)		Ph.D.(Agri.)	
		I term	II term	I term	II term	I term	II term
A) College fees.							
1	Tuition Fee	6000	6000	8000	8000	12000	12000
2	Registration fee	400	400	500	500	500	500
3	Eligibility Fee	400	-	500	-	500	-
4	College caution money	2000	-	2000	-	2000	-
5	Library fees	800	800	1000	1000	1000	1000
6	Subscription towards Students Council Activities						
	i) Sports, Gymkhana and allied activities.	1000	1000	1000	1000	1000	1000
	ii) Co-operative Society (Share + Membership fee)	200	-	200	-	200	
	iii) Annual Prize Distribution Function	400	-	800	-	800	-
	iv) College magazine	400	-	400	-	400	-
	v) Ashwamedh Sport Fee	50	-	100	-	100	-
7	University Medical Examination Fee.	200	-	200	-	200	-
8	Identity Card	100	-	100	-	100	-
9	Student's Aid Fund	200	-	200	-	200	-
10	Grade Card	200	200	200	200	200	200
11	Examination Fee	3200	-	3500	-	3500	-
12	Students' safety insurance premium.	100	-	100	-	100	-
13	Thesis Evaluation	-	-	*5000	-	*5000	-
	<b>Total (A)</b>	<b>15650</b>	<b>8400</b>	<b>18800</b>	<b>15500</b>	<b>22800</b>	<b>9700</b>
<b>(B) Hostel</b>							
1	Hostel Caution money	3000	-	3000	-	3000	-
2	Maintenance charges	3000	3000	3000	3000	3000	3000
3	Electricity Charges	3000	3000	3000	3000	3000	3000
4	Mess deposit.	-	-	-	-	-	-
	<b>Total (B)</b>	<b>9000</b>	<b>6000</b>	<b>9000</b>	<b>6000</b>	<b>9000</b>	<b>6000</b>
	<b>Grand Total (A+B)</b>	<b>24650</b>	<b>14400</b>	<b>27800</b>	<b>21500</b>	<b>31800</b>	<b>25500</b>

### 3. Registration procedure

- **Admission:**

1. The date of registration, commencement of instructions, etc. Shall be determined by the State Council/DICC from time to time and notified accordingly by the Registrar of the concerned University. There will be a separate academic calendar for each faculty approved by the DICC on recommendations of the Dean of concern faculty. First semester will normally commence from August while second semester normally from January of the following calendar year.
2. Selection of candidates for the first semester of post graduate courses shall be made in accordance with the provisions of the Regulations made in this behalf by the State Council from time to time.
3. Fees levied on account of registration, tuition, hostel student council, examination premium for students' safety insurance and other items shall be such as determined by the State council from time to time.
4. Candidates selected for provisional admission to a post graduate degree programme shall report to the respective Dean/Principal of the College during the period notified by the Registrar of the University. The candidate then shall register as per the necessary directives received from the Dean/Associate Dean/Principal of the College where he/she has been given admission.

- **Registration:**

Registration shall consist of: Payment of University/College/Hostel fees and other fees to the Dean/Associate Dean/Principal in person.

1. Registration of a student in various courses in consultation with the respective course teacher and Advisor and acceptance by the Dean/Associate Dean/Principal. The approved courses must be mentioned in the roster form (Annexure-I).
2. The Advisor to each student will be allotted by the department within 15 days from registration.
3. After receipt of Roster forms from students, the Dean Associate Dean/Principal of the College shall allot enrolment number to each student and communicate the same to the Dean/Associate Dean/Principal for notification within a month from the date of registration.

- **Late Registration:**

A student seeking admission to semester other than the first shall be permitted by the Dean/Associate Dean/Principal on payment of a late fee of Rs. 100/- per day upto a period

of five working days including the day notified for registration. No registration shall be permitted on the expiry of said period. The amount of fine so collected shall be credited in the account of student council of a college/institute.

### **Evaluation and Grading**

#### **U. G. Programme**

The evaluation and grading each programme is through the course credit system and as per the Academic Regulations: 2011 for Bachelors and PG Degree Programme approved by the MCAER. Academic Regulation for Bachelors degree programme: 2011

<b>RegulationNo.</b>	<b>Provision</b>
3	Admission, Registration and Eligible Certificate
6	Re-admission
7	Course credits, curriculum system of teaching and evaluation
8	Counselling system
9	Credit load (25) regular, maximum (40)
10	Residential requirement
12	Evaluation
15	Repeat Examination
16	Unfair means
19	Record of courses
24	Maintenance of discipline among students
25	Removal name from roll call

The evaluation and grading each programme is through the course credit system and as per the academic regulations for post graduate degree programme: 2011 as detailed below.

<b>Regulation No.</b>	<b>provisions</b>
3	Admission
9	Break in studies
11	Formation of Students Advisory Committee
12	Minimum credit requirement major, minor, supporting and Research work
14	Course plan work
15	Credit load (max.18 excluding research credit and NCCC
18	Outline of Research Work
19	Residential requirement
20	Attendance
21	Evaluation and Result
23 and 24	Weightages and grade
25	Requirement of CGPA for award of Class
26	Repeat examination
30	Comprehensive examination
31	Synopsis and Thesis seminar
32	Thesis submission
33 AB	M.Sc.&Ph.D. thesis evaluation and Notification
37	Award of degree
40	Maintenance of the discipline among the students
41	Removal name of roll call

**4.Academic schedule is published at start of the semester by MCAER Pune common in all SAUs of state**

**6.5.4.4 Conduct of Practical and Hands on Training:**

Practical and hands on training is being conducted in different courses to meet the student satisfaction.

As per the course lesson plan students' practical are conducted in a way that allowed students to get as involved as possible to increase their knowledge and ability and Skilled them that can only be learn through hands on practice. Practicals are conducted as per course of lesson plan in accordance with Dean's committee.

Students are practically trained in varietal release, hybrid seed production, seed production and testing and to study vital metabolic activity of plant in Agril. Botany, Essential crop production technique in agronomy, soil water and plant analysis technique in soil science and agricultural chemistry, insect studies ,nature of damage and control damage of pests in entomology,disease causing organism studies,nature of damage and control measure of diseases in plant pathology, basic and applied innovative agricultural extension technology in extension education,agricultural credit system and minimum support prise studies in agricultural economics, cattle breed ,milk and milk products in animal husbandry and dairy science, Pomology vegetable and post harvest studied in horticulture.

There is an interdisciplinary approach in teaching undergraduate courses, when students undergo RAWE programme in their VII semester and ELP in the VIII, a team of specialists Agronomist, Soil scientists, Pathologist, Entomologist, Horticulturist, Agril. Engineering and Economist remains collectively in touch with the students. They meet once in a month and have discussion by guiding them and solving their problems in the particular subject or field. Thus there is a collective and integrated interdisciplinary approach in teaching.

Employability, being the major concern today, every individual aims at getting coveted jobs. Employability today is commensurate with proving multiple skills in varied situations in a fast changing world. Hence, everyone aspires for jobs today where one requires to be armed with different skills. The course with practical assignment, address various challenges of communication as well as behavioural skills faced by individuals in bridging the gaps through effective skills of interviews, group discussions, listening skills, oral presentations and drafting various documents for sustainability in today's global world.

**6.5.4.5 Examination and Evaluation Process:**

The evaluation of student's performance is a central task of College administration.

**Student Evaluation**

<b>Examination</b>	<b>UG</b>	<b>PG</b>	<b>Ph.D.</b>
<b>Internal (%)</b>	20%	100%	100%
<b>External (%)</b>	80%	-	-
<b>Other (Specify) (%)</b>	-	-	-

**Frequency of Student Evaluation (% weightage)**

<b>Monthly</b>	<b>UG</b>	<b>PG</b>	<b>Ph.D.</b>
<b>Quarterly (Mid-term)</b>	20%	20%	20%
<b>Semester wise</b>	80%	80%	80%
<b>Other (Specify) (%)</b>	-	-	-

**Mode of student Evaluation (% weightage)**

<b>Mode</b>	<b>UG</b>	<b>PG</b>	<b>Ph.D.</b>
<b>Quiz / Test</b>	-	-	-
<b>Assignment</b>	-	-	-
<b>Term papers / Seminars</b>	100%	100%	100%
<b>Seminars</b>	-	-	-
<b>Others (Specify)</b>	-	-	-

**Evaluation**

The student progress in a course is judged through well spread out periodical examination as detailed below.

**i) Mid semester theory examination**

Mid semester theory the course teacher conducts examination when approximately half the course content is completed. It consists of theory paper of one hour. There are maximum two theory papers per day. The timetable is notified by the Dean/Associate Dean. No missed mid semester examination is conducted.

**ii) Semester end theory examination**

The semester end theory examination for UG is conducted by MCAER, Pune, while for PG it is controlled by PGI. The semester end theory examination programme is notified by the Registrar well advance before 15 days of the date of examination. The semester end theory examination is of 2 hours duration for 1 credit course of 40 marks and 3 hours duration for 2 and 3 credits course with 80 and 120 marks, respectively. There should be normally one paper per day for regular student.



### iii) Semester end practical examination

The semester end practical examination is conducted immediately after/ before semester end theory examination. The semester end practical examination is of minimum two hours' duration irrespective of credits. No student is examined in more than two practical per day.

The practical examination is conducted at the respective Universities, under the supervision of external examiners appointment by the University. In case of PG Semester end theory examination is conducted under the supervision of the respective University.

**Weightage:** The details of relative weightage are given as under.

#### Relative weightages to the various examinations

Examination		Weightage per cent	Marks for credits	
			1 + 1 = 2	2 + 1 = 3
<b>Theory</b>	Mid semester	20	10	20
	Semester end examination	80	40	80
<b>Practical</b>	Record of class work	20	10	10
	Semester end examination	80	40	40

One credit is equal to 50 marks. The relative weightage is 20% for mid semester examination and 80% for semester end examination. For practical examination 20% for record of class work and 80% for semester end examination.

### inding and declaration of class

The graduation is in 0-10-point scale. Students seeking less than 50 per cent marks, 65 per cent and 70 per cent in a course would be declared as failed in that course for B.Sc. (Agri.)

#### Stages of declaration of classes under graduate

Pass class	Second Class	First Class	First class with distinction
5.00 to 5.99	6.00 to 7.49	7.50 to 8.49	8.50 and above

The students who have 80 per cent attendance, but failed in courses can apply for the semester end examination directly without attending the classes in that courses by payment of fees of Rs. 200/- per course within month of date of registration. Such repeat courses shall not be considered for the maximum credit load prescribes for the semester. If a student Re-registers a course of any semester, he/she has to pay Rs. 200/- per course at the time of registration.

**Stages for declaration of classes for Post graduate**

Degree programme	Pass class	Second Class	First Class	First class with distinction
Master degree	5.00 to 6.49	6.50 to 6.99	7.50 to 7.99	8.00 and above
Doctoral degree	6.00 to 6.49	6.50 to 7.49	7.50 to 7.99	8.00 and above

Fractional percentage is rounded to the next higher integer. Student securing less than 65% and 70% marks in a course is declared as failed in that course of master and doctoral degree respectively. The students who have 80.00 per cent attendance, by failed in courses can apply for the semester end examination directly without attending the classes in that courses. Such repeat courses are not considered for the maximum credit load prescribed for the semester. The students having less than 80% attendance are not allowed to appear for examination and they have to register for those particulars courses. If a student Re-registers only for examination a course of any semester, he/she has to pay Rs. 200/- per course at the time of registration.

**Declaration of Result and issue of certificate, transcript and notification**

On satisfactory completion of the requisite courses Honourable Vice-chancellor approved the result and there upon the Registrar issues a PDC, transcript and notification.

**Award of degree**

The students who have successfully completed the graduation requirement for the award of the degree in accordance with the provisions of the regulations, a certificate under the seal of University and signed by the Vice-Chancellor been presented at the Convocation or in absentia. The said degree indicates the name of student, CGPA obtained and division in which he/she has placed.

**Educational Tour**

The students are taken for educational tours to various research and educational institutes give them exposure. First year students are allowed to educational tour within the state, second year south India and third year North India.

**Research**

Need based research is initiated at each department level through research topic of M Sc. and Ph.D. students and research schemes in the college. The concern HOD also act as convener for research programme and approves technical programme of respective department.

## **Extension**

Need based short- and long-term extension strategies get initiated at the extension department, discussed in the Extension Advisory Committee meeting. Any educational institution has four missions namely, generation and presentation of knowledge, extension of knowledge, training of professional workers and social mission. The extension activities are implemented through College Development block which comprised of four villages from Parbhani District namely Porwad, Malsona, Angalgaon and Dhondi.

The students of post graduate degree programme have to perform following major academic activities during study period.

### **I. Formation of Student's Advisory Committee:**

For each student admitted to post graduate degree programme a student advisory Committee (SAC) comprising of minimum 3 and maximum 4 members for master degree programme, while minimum 4 and maximum 5 members for Doctoral degree are constituted within two weeks after registration.

A proposal for the formation of a Student Advisory Committee (SAC) is to be forwarded in the prescribed proforma in five copies for approval to the Dean/Associate Dean/Principal of Post graduate/constituent colleges within a month from the date of registration. Every student is having a recognised teacher as an advisor from the major field and function as a Chairman of the SAC.

### **II. Course plan work (CPW)**

The course plan for the PG degree programme is so designed so as to enable the student to achieve proficiency in the field of his/her specialization. The major, minor and supporting course plan is finalised by the student advisory committee (SAC) taking into consideration the training requirements in the particular field of students' thesis research work. Once the course plan is finalised by the Students Advisory Committee and approved by the Associate Dean (PGI)/Dean no change is allowed to withdraw any major courses from the approved course plan.

### **III. Outline of Research work**

The Outline of Research Work (ORW) is proposed by the student in consultation with SAC. The ORW should indicate a precise planning to conduct experiment, which includes correct title of research topic, crystal clear objectives, its importance, appropriate review of literature, programme of research work, methodology consisting of experimental details, treatment details and particular observations to be recorded and more importantly, facilities

required for completion of the research work and place of research. The ORW is finalized in Board of Studies of respective department.

#### **IV. Comprehensive examination**

Students are allowed to attend for comprehensive examination after completion of 75% course work separately in major and minor subjects. The comprehensive examination of Masters Degree are consist of two theory papers of 100 marks separately for Major and minor field. The students shall obtain 65% marks in the comprehensive examination for passing. The comprehensive theory examination for Doctoral degree shall consist of three papers of 100 marks each. Among which two papers from major field while one paper from minor field. The student should obtain 70 per cent marks in the comprehensive examination for passing. After successful completion of comprehensive theory examination, the comprehensive viva voce examination for doctoral degree will be conducted by the SAC with one additional member from outside the university as an external examiner.

#### **V. Seminar**

A Master degree student shall give one seminar in the major field of his/her studies while a doctoral degree student shall give two seminars.

#### **VI. Synopsis**

The synopsis of the Ph.D. thesis is to be placed before the respective Board of Studies (BOS) for its approval, while synopsis of Master thesis is to be approved by student advisory committee (SAC).

#### **VII. Thesis**

The student shall submit two draft thesis copies for master degree and three draft thesis copies for doctoral degree programme. The thesis submitted in partial fulfilment of Master degree shall be evaluated by one external examiner. The thesis submitted in partial fulfilment of Ph.D. degree shall be evaluated by two examiners. A thesis viva voce examination shall be conducted by the Advisory Committee with addition to one external examiner who evaluated thesis after receipt of the satisfactory report of external examiner.

### **Curricula Development / Revision Process**

The academic curricula are regularly updated and revised in the light of the developments place and as per the theoretical and practical requirements of different programmes. Some course/subject in degree programme is added while those old are obsolete from the curricula.

A new and revised curriculum for under graduate degree programmes has been introduced in operation since academic year 2007-08 in accordance with recommendations of IV Dean's Committee of ICAR, New Delhi.

A new and revised curriculum for post graduate degree programmes is introduced and is in operation since academic year 2009-10 as per the directives of the NCG and ICAR, New Delhi. Syllabus is revised after 10 years by Dean's Committee.

### **Adoption of ICAR Model Curricula and Deviation**

#### **U.G. courses**

As per the IV Dean's Committee the new degree course/subject based Academic programmes are implemented from 2007-08.

#### **PG courses / M.Sc. (Agriculture) Programme**

As per the recommendations of National Core Group of ICAR, New Delhi the curricular and syllabi for Master's degree programme have been revised with 10 to 15% deviation in ICAR syllabus. The revised academic programme is being implemented from the academic year 2009-10.

The students admitted for Master degree programme are offered Major courses of 20 credits which are common in the respective disciplines and the subject closely related to department. Minor subject and is allotted as minor courses of 09 credits, 01 credit of seminar and supporting courses of 05 credits which are relevant for student research work, thus total 35 credits course work are offered. The students have the facility to undertake Auditing courses for building his overall competence. The 20 credits are offered as research credits. Also 06 non credits compulsory courses are offered which are of general nature.

The students admitted for Doctoral degree programme are offered Major courses of 15 credits which are common in the respective disciplines and the subject closely related to students' minor subject is allotted as minor courses of 8 credits, 02 credits of seminar and supporting courses of 05 credits which are relevant for students' research work, thus total 30 credits courses work is offered. The students have the facility to undertake auditing courses



for building his overall competence. The 45 credits are offered as research credits. If the student complete NCCC during M.Sc. these course is not offered during Ph.D.

The relative weightage to the various examinations conducted, class work and records maintained during a semester is as under:

**For UG.**

**THEORY**

Mid-semester examination	-	20 per cent
Semester-end examination	-	80 per cent

**PRACTICAL**

Record of class work	-	20 per cent
Semester-end examination	-	80 per cent

**For PG**

Mid term, theory practical, comprehensive examination, thesis evaluation and viva voce internal and external components

**For Ph.D.**

Mid term, theory practical, comprehensive examination,thesis evaluation and viva voce internal and external components

**6.5.4.6 NCC/NSS/RVC Units:**

**NCC Units**

**National Cadet Corps (NCC) Unit**

**Existence and functioning**

- ❖ The NCC Unit of Collage of Agriculture, Parbhani is established in 1969 to develop character, comradeship, discipline, leadership and secular outlook in the students. This unit is under 52 MAH, BN, NCC, Nanded. The motto of NCC is 'Unity and Discipline'.
- ❖ The unit has strength of 108 cadets. An ANO (Associate NCC Officer) to the rank of honorary lieutenant is looking the various activities of NCC. 'B' certificate and 'C' certificate examinations are conducted annually. A cadet clearing these exams in A or B grade have good opportunity for various jobs in security forces.
- ❖ A senior division (SD) cadet stay in NCC for a period of 3 years.

**Objectives of NCC**

- ❖ Reach out the maximum youth through various institutions.
- ❖ Make NCC as an important part of the society.
- ❖ Teach positive thinking and attitude to the youths.
- ❖ Become a main source of National Integration by making NCC as one of the greatest cohesive force of our national irrespective of any caste, creed, religion or region.
- ❖ Mould the youth of the entire country into united, secular and disciplined citizens of nation.
- ❖ Provide an ideal platform for the youth to showcase their potential in nation building.
- ❖ Instill spirit of secularism and united India by organizing National Integration Camps all over the country.

**List of NCC Officers of the university worked in the unit since establishment.**

S. No.	Rank	Name of the NCC Officer	Duration
1	Care taker	Prof. Jeurkar	--
2	Captain	Dr. D.V. Dahiphale	--
3	Care Taker	Dr. S.P. Mehetre	1999 to 2001
4	Lieutenant	Dr. H.V. Kalpande	2001 to 2013
5	Lieutenant	Dr. A.B. Bagade	2013 to 2019
6	Lieutenant	Dr. J.D. Deshmukh	2019 to till date

**List of senior under officers of NCC unit during the year 2018-19 to 2022-23.**

S. No.	Name of the senior Under Officers	Year
1	Vrushabh Ranveer	2023
2	Akshay Gutte	2022
3	Dnyaneshwar Pawar	2021
4	Yogesh Thombre	2020
5	Hanuman Mane	2019
6	Bhosale Bhagwat	2018

**List of NCC activities organized and students participation during the year 2018-19 to 2022-23.**

Sr. No.	Year	Event	Duration	No. of Participants
1	2018-19	Combined Annual Training Camp (CATC), Nanded	22 June to 01 July 2018	19
		Combined Annual Training Camp (CATC), Parbhani	01 Dec. to 10 Dec. 2018	20
		Combined Annual Training Camp (CATC), Parbhani	11 Dec. to 20 Dec. 2018.	43
		Ek Bharat Shreshth Bharat-I Camp, Nashik	14 Nov. 2018 to 23 Nov. 2018	04
		NCC Day (Clean Campus Mission)	23 Nov., 2018	40
2	2019-20	Cleaning Campaign	17 Jan. 2020	42
		Combined Annual Training Camp (CATC), Mugat	13 <sup>th</sup> Sept. 2019 to 22 <sup>nd</sup> Sept. 2019	10
		Combined Annual Training Camp (CATC), Mugat	23 <sup>th</sup> Sept. 2019 to 02 <sup>nd</sup> Oct. 2019	19
		International Yoga Day	21 June, 2019	92
		Green India- Clean India Programme	02 Octo. 2019	31
		Combined Annual Training Camp (CATC), Mugat	28 <sup>th</sup> Nov.2019 to 07 <sup>th</sup> December 2019	20
		NCC Day (Domestic Waste Management Programme)	23 Nov., 2019	60
		Tree Plantation Programme	1 July 2020	77
		Army Attachment Camp, Ahmednagar	01 <sup>st</sup> Jan. 2020 to 10 <sup>th</sup> Jan. 2020	03
		Motivational Lecture (Online) by Pandit Rejitwad, Police Inspector	30 September 2020	102
4	2021-22	Krishi Shiksha Diwas	03 Dece. 2020	84
		World Environment Day	05 June 2021	53
		Tree Plantation Programme	1 July 2021	105
		Fit India Freedom Run	02 Octo. 2021	94
		NCC Day (Swaccha Bharat Abhiyan)	24 Nov., 2021	60
		Mountaineering Courses	2021	02
		Shivaji Trail Trek - 2021 (STT - 2021) Kolhapur	27 Nov 2021 to 07 Dec 2021	02
		Combined Annual Training Camp (CATC), Parbhani	04/12/2021 to 10/12/2021	53
5	2022-23	Cleaning and Mulching of Trees	31 March 2022	76
		Punit Sagar Abhiyan, Pingli	08 April 2022	26
		Discipline Committee in Convocation	22 April 2022	68
		Combined Annual Training Camp (CATC), Nanded	12 June to 21 June 2022	61
		Tree Plantation Programme	1 July 2022	105
		Run for Unity Programme	31 Octo. 2022	102
		NCC Day (Blood Donation Programme)	26 Nov., 2022	69
		Gen. Bipin Rawat Shahid Din	08 Dec. 2022	102
		Cycle Mahaparikrma Rally	04-05 Dec. 2022	82

**Students participated in various national and state level training camps to acquire NCC B and C certificate organized by 52 MAH BN**

After successful completion of annual training camps at National and State level, the students appeared for respective NCC B and C certificate written examination. Details of number of students appeared and number of students passed during the year 2018-19 to 2022-23 are as follows:

**Students appeared for NCC “B” Certificate**

S.No.	Year	No. of cadets appeared	No. of cadets passed	Passing percentage
1	2018-19	25	24	96.00
2	2019-20	36	32	88.88
3	2020-21	48	44	91.66
4	2021-22	25	22	88.00
5	2022-23	36	36	100%

**Students appeared for NCC “C” Certificate**

S.No.	Year	No. of cadets appeared	No. of cadets passed	Passing percentage
1	2018-19	44	42	95.45%
2	2019-20	23	21	91.30%
3	2020-21	36	33	91.66%
4	2021-22	44	41	93.18%
5	2022-23	23	23	100%

### NCC Activities



Firing Practice at CATC NCC CAMP, College of Agriculture Parbhani



CATC NCC CAMP, College of Agriculture Parbhani



26 January 2023 Celebration of Republic Day



**NSS Units: (NATIONAL SERVICE SCHEME)****Existence and Functioning of NSS Unit:**

NSS was formally launched on 24<sup>th</sup> September, 1969, the birth century year of the father of the Nation. The National Service Scheme (NSS) of students Sponsored by the Ministry of Human Resources Development, Department of Youth Affairs and Sports, Government of India is in operation at the Colleges since 1987. The NSS Unit was started Marathwada Krishi Vidyapeeth since 1972. Same time NSS unit was started college of Agriculture Parbhani. This time the NSS unit is provided with 50 volunteers and one Programme officer. Today the unit is provided with 210 volunteers and two programme officers. The activities are twofold.

- Regular activity under which the volunteers have to complete 240 hours during two years of registration.
- Special Camp Programme, under which the volunteers are kept in a village for 7 days to participate in the programme on literacy, health, sanitation, construction of rural roads etc

**NSS programmes and Special Camps organized by College during last five years**

Sr. No	Name of the Programme	No. of Students participated/ benefited	Impact of the programme, and how it is benefiting the students
<b>2018-19</b>			
A) Regular Programmes :			
1	College of Agriculture, Parbhani celebrated 127 <sup>th</sup> Birth Anniversary of Dr. Babasaheb Ambedkar on 14 <sup>th</sup> April. 2018 by NSS volunteers was inaugurated. On this occasion NSS volunteers delivered speeches on life of Dr. Babasaheb Ambedkar.	215	Motivated the NSS volunteers by speeches
2	Organizing the International Yoga Day on 21 <sup>st</sup> June in college campus. NSS volunteers and staff were participated actively.	250	It underlines that the aim of the NSS to demonstrate this motto in its day-to-day programme
3	On 1 <sup>st</sup> July celebrated "Krishi Din" On this occasion; tree plantation programme was run at college premises in which various trees were planted on road sides of college campus.	245	The motto or watchword of the NSS Volunteers is "NOT ME BUT YOU" Was enhanced through plantation.
4	On 24 September the NSS Volunteers were actively participated in celebration of NSS Day, at College of Agriculture, Parbhani	243	Cleaned College campus. Motivated and mentoring the students towards Swachh Bharat Mission Programme.

B) Special Camp Activities: Special campaign was organized At. Karegaon. & Dist.: Parbhani During 25 March 2019 to 31 March 2019.			
1	On dated 25March 2019, NSS Specialcamp was inaugurated by Dr. D.V.Patil, Director of Instruction and Dean) F/A), VNMKV,Parbhani also Dr. D.N. Gokhale, Associate Dean and Principal,College of Agriculture, Parbhani.	132	Motivated to the NSS Volunteers for day to day work
2	On 26 <sup>th</sup> March 2019, rallywas arranged for giving message of Save Water through NSS Volunteers underthe guidance of Prof. V.B.Jadhav and Prof. S.N.Pawar, programme officer.	132	Cleaned village. Created awareness about Water among villagers and volunteers
3	On 27 <sup>th</sup> March 2019, blood Donation Camp was organized in collaboration with civil Hospital Parbhani in order to donate blood. Civil Hospital Doctors and his team examined Blood group, HB for 102 volunteers and villagers in camp.	132	Created awareness about Blood donation among villagers and volunteers.
4	On 28th March 2019, volunteers of NSSperformed very useful activity of“Gram swachhata abhiyan”	132	Cleaned village. Created awareness about cleanliness among villagers and volunteers
5	On 29th March 2019, NSS Volunteersorganize Natika on Matdan Jagruti and Vyasan Muktiin front of TempleKaregaon, many people enjoyed this programme.	132	Awareness about Election and Addiction among villagers and volunteers
6	On 30th March2019, Dr.Pradip Engoleguided all NSS volunteers and people of karegaon on importance ofagriculture.	132	Awareness about farming among villagers and volunteers
7	On <sup>st</sup> 31March 2019,on occasion of closing ceremony Dr. D. N. Ghokhale, guided to NSS Volunteers.	132	Guided and motivated to NSS Volunteers by speech
2019-20			
A) Regular Programmes :			
1	Organizing the International Yoga Day on 21 <sup>st</sup> June in college campus.	120	It underlines that the aim of the NSS to demonstrate this motto in its day-to-day programme
2	Tree plantation programme was Conducted on 1 <sup>st</sup> July at college premises in which KaduNimb, Tekomo, Karanj and other various tree plants were planted on road sides of college campus.	75	The motto or watchword of the NSS Volunteers is: “NOT ME BUT YOU” Was enhanced through plantation.
3	The NSS Volunteers were actively participated in celebration of NSS Day on 24 September, at College of Agriculture, Parbhani	100	Cleaned College campus. Motivated and mentoring the students towards Swachh Bharat Mission Programme.
4	Celebrated International Women’s Day on 8 <sup>th</sup> March in presence of social worker Disha Shekh in	120	Motivated and mentoring the girl students

	Girls hostel, College of Agriculture, Parbhani		
B) Special Camp Activities:			
	Due to Covid -19 pandemic situation Local NSS volunteers and staff members were carried out tree plantation programme in the college premises. Also cover the plants with Green Net to protect the plants from summer heat. Organic mulching i.e. putting fodder cuts at bottom of trees to keep the land in wet condition for longer duration (moisture conservation ).		
2020-21			
A) Regular Programmes :			
1	The Blood donation camp was organized in which NSS volunteers and staff members voluntarily donated the blood.	100	The motto or watchword of the NSS Volunteers is: “NOT ME BUT YOU” was enhanced through blood donation camp.
B) Special Camp Activities: Special campaign was organized At. Parbhani. & Dist.: Parbhani During			
	The NSS Volunteers were actively participated in Swachh Bharat Mission Programme.	75	Cleaned College campus. Motivated and mentoring the students towards Swachh Bharat Mission Programme.
2021-22			
A) Regular Programmes :			
1	Organizing the International Yoga Day on 21 <sup>st</sup> June in college campus of VNMKV, Parbhani. Participated staff and NSS students		It underlines that the aim of the NSS to demonstrate this motto in its day-to-day programme
2	Tree plantation programme was Conducted on 1 <sup>st</sup> July at college premises in which KaduNimb, Tekomo, Karanj and other various tree plants were planted on road sides of college campus.		The motto or watchword of the NSS Volunteers is: “NOT ME BUT YOU” Was enhanced through plantation.
3	Celebrated International Women’s Day on 8 <sup>th</sup> March and organized online webinar for staff and students of VNMKV, Parbhani.	215	Motivated and mentoring the girl students
4	During Democracy Fortnight, organized Rangoli competition, Essay competition, Poetry, debate competition and inspirational lecture.	353	Mentoring and motivated the students towards democracy by lecture of speakers.
B) Special Camp Activities: Special campaign was organized At. Sayala. & Dist.: Parbhani During 24 March 2022 to 30 March 2022.			
1	Daily Shramadan:- Cleaning up of approachable roads , solid waste and dirty water management in village.	100	Encouraged the students towards daily shramadan and kept the motto : ‘NOT ME BUT YOU ‘ WAS enhanced.
2	The Blood donation camp was organized in which NSS volunteers and staff members voluntarily	100	The motto or watchword of the NSS Volunteers is:

	donated the blood.		“NOT ME BUT YOU” was enhanced through blood donation camp.
3	Organized various lectures by different speakers to guide the NSS volunteers	100	Mentoring and motivated the students by lecture of various speakers.
4	An oath was taken for water conservation in presence of Shri. Shivanand Taksale, District Chief Executive Officer and Shri. Omprakash Yadav Vice District Chief Executive Officer , Parbhani	100	Mentoring and motivated the students towards water conservation.
2022-23			
A) Regular Programmes :			
1	Organized “cleaning campaign” and lecture on “Mitraidi” on occasion of Mazi vasundhara saptah	100	Cleaned College campus and Tridhar. Motivated and mentoring the students towards Swachh Bharat Mission Programme
2.	Organizing the International Yoga Day on 21 <sup>st</sup> June in college campus. NSS volunteers and staff actively participated.	120	It underlines that the aim of the NSS to demonstrate this motto in its day-to-day programme
3	Tree plantation programme was Conducted on 1 <sup>st</sup> July at college premises in which Kadu Nimb, Tekomo, Karanj and other various tree plants were planted on road sides of college campus.	100	The motto or watchword of the NSS Volunteers is : “ NOT ME BUT YOU ‘ Was enhanced through plantation.
4	“Azadi ka amrut mohotsaw” celebrated by NSS volunteers and organized competition for school students, cultural programmes, fine art competition and har ghar tirnga mission	160	Aware the volunteers towards independence
5	Organized “Swacchata fortnight” from 2-16 October, 2022 and International youth day NSS volunteers were actively participated.	126	Cleaned College campus. Motivated and mentoring the students towards Swachh Bharat Mission Programme
6	Organized Partition horror remembrance day and NSS volunteers and staff actively participated.	100	Aware the volunteers towards Partition horror remembrance
7	Organized “plastic collection campaign” on 19 October, 2022 NSS volunteers actively participated and collect the plastic from campus and disposed properly	71	Cleaned College campus. Motivated and mentoring the students towards plastic collection campaign
8	Organized Quiz competition on occasion of “ Savidhan Din” on the subject “ Bharat loktantra ki janani”	20	Aware the volunteers towards Bhartiya sawidhan
9	Celebrated International Women’s Day on 8 <sup>th</sup> March and organized speeches for staff and students of VNMKV, Parbhani.	215	Motivated and mentoring the girl students

B) Special Camp Activities: Special campaign was organized At. Ethalapur. & Dist.: Parbhani During 28 December 2022 to 03 January 2023.

1	Daily Shramadan:- Cleaning up of approachable roads and temple in village.	105	Encouraged the students towards daily shramadan and kept the motto: 'NOT ME BUT YOU' WAS enhanced.
2	Organized speeches of NSS volunteers on importance of agriculture and NSS volunteers were actively participated.	105	Encouraged the students towards farming
3	Organized New Voter Awareness Rally NSS volunteers were actively participated and gave the message to villagers about voting.	105	Aware, encouraged and motivated to the students and villagers towards voting
4	Organized Jal surksha abhiyan rally and NSS volunteers participated actively for giving the message of importance of water	105	Aware villagers about water management and importance of water
5	Organized "Shiwarpheri" on farmers field and gave the information regarding irrigation management	105	Aware, encouraged and motivated to the students towards irrigation management
6	Organized speech of Mr. Dipak Dantuewar, Assistant Police Inspector, Parbhani regarding awareness of Cyber crime	105	Aware, encouraged and motivated to the students towards good work
7	Organized speech of Dr. Vidyatai Choudhary, Gynecologist, Parbhani regarding awareness of health specially for girls students	105	Aware the NSS volunteers towards health issues



### NSS Activities: “Cleaning Campaign”







International Yoga Day-2022



Har Ghar Tiranga



Partition horror remembrance day-2022

#### **6.5.4.7 Language Laboratory:**

Though our students fare well in their exams, in real life they are left fumbling for words and speaking incorrect English. With globalization, there has been a rise in demand for employees with good communication skills. With the growing demand for excellent communication skills, there have been explorations in the area of technology to meet this purpose. And one such experiment has been in the field of Language Laboratory. It is a good space for learning foreign languages where students access audio or audio-visual materials. They allow a teacher to listen to and manage student audio, which is delivered to individual students through headphones.

#### **History of Language Laboratory:-**

The first recorded language lab was established at the University of Grenoble in 1908. Frank Chalfant brought the concept to the United States, establishing a 'phonetics lab' at Washington State University in 1911 or 1912. These early language labs used phonographs to deliver audio and were not yet divided into individual booths. In the 1940s, linguists at the University of Michigan developed the behaviourist audio-lingual method of foreign language learning. This method relied on repeated listening and speaking drills. This method increased in popularity in the United States and Canada into the 1950s and 1960s. Language labs were well-suited to the audio-lingual method. By 1958, there were over 300 language labs in the US, with the majority in colleges and universities. Language laboratories were common in schools and universities in the United States in the two decades following World War II. They have now largely been replaced by self-access language learning centres called *Language Lab*.

**Advantages of Language Laboratory: -** Using a language lab has many benefits:

##### **1. Practice:**

Through the language laboratory, we can practice wellfour skills of language that are reading, writing, listening and speaking. The language laboratory is a very helpful tool for practising and assessing one's speech in any language.

##### **2. Self-Assessment:**

It provides a facility which allows the student to listen to model pronunciation, repeat and record the same, listen to their performance and compare with the model, and do self-assessment.

### **3. Variety:**

The language lab provides variety from regular classroom situations. The teacher's role is changed and the students are more active for longer periods. The use of visual stimuli coupled with selective audio materials increases the attention span of the students.

### **4. Allows learners to pronounce certain words correctly:**

It allows students to pronounce certain words correctly. Small details like accent, stress and blending of words can also be corrected.

### **5. Efficiency:**

The teacher can monitor individual students (and talk to them) much more efficiently than in a regular classroom. Usually, in a regular classroom, all other students stop speaking when the teacher communicates with an individual student. In a lab, they will continue working without interruption. Also, a teacher can interact with many more students since he/she merely presses a mouse key or touches a button to be in contact with a student.

By following the guideline of the Fifth Deans' Committee for developing all these skills we established Language Laboratory in Agril. Extension Education, College of Agriculture, VNMKV, Parbhani. In this department yearly UG-240/PG-175 and Ph.D.-25 students are using language laboratory for developing their language skills.

### **6.5.4.8 Cultural Centre:**

College has cultural center to empower students' leaders to explore. Celebrate and educate the campus community about the diversity among them. College offers inclusive and reflective space, multicultural programming, and support services that encourage positive interaction, academic persistence and growth among students, faculty and staff.

The Government of Maharashtra has initiated different programmes like Indradhanushya and Avishkar, for development of the students in cultural activities, and inculcation of research aptitude. For participation in such state level programmes, the students are selected at the college level by organizing inter-collegiate tournaments and the selected students participate at the State level.

**Yearwise Achievements of the students in cultural activities in ICAR Youth festival:**

<b>Academic Year 2018 – 19 ICAR youth festival held at SKAU, Dantewada</b>			
<b>Sr. No.</b>	<b>Students Name</b>	<b>Events</b>	<b>Achievements</b>
<b>1</b>	Shivani Yengade	Folk Dance	II Prize / Silver Medal
<b>2</b>	Khushi Satonkar	Debate	Consolation prize
<b>Academic Year 2019 – 20 ICAR youth festival held at IGKV, Raipur</b>			
1	Siddhi Desai	Poster making	I prize
2	Siddhi Desai	cartooning	II prize
3	Shrishti Gupta	One act play	II prize
4	Siddhi Desai	Fine art	Participated
5	Shrishti Gupta	Music	Participated
6	Shrishti Gupta	Theatre	Participated
7	Shrishti Gupta	Literary	Participated
8	Neha Kadam	Dance	Participated
9	Shravani Kale	Music	Participated
10	Survana Chaudhary	Music	Participated
11	Survana Chaudhary	Literary	Participated
12	Rutuja Gadhave	Dance	Participated
13	Rutuja Gadhave	Literary	Participated
<b>Academic Year 2020 – 21 ICAR youth festival</b>			
1	<b>No event</b>		Pandemic Situation (COVID-19)
<b>Academic Year 2021 – 22 ICAR youth festival</b>			
1	<b>No event</b>		Pandemic Situation (COVID-19)
<b>Academic Year 2022 – 23 ICAR youth festival held at UAS, Bangalore</b>			
1	Puja Padamgirwar	Collage	III Prize
2	Maria David	Indian Group song and Petriotiatic Song	Participated
3	Gayatri Khodke	Group dance	Participated
4	Gayatri Khodke	Skit	Participated
5	Gayatri Khodke	Mime	Participated
6	Neha kadam	Group dance	Participated



7	Neha kadam	Skit	Participated
8	Neha kadam	Mime	Participated
9	Dipti Singh	Debate	Participated
10	Dipti Singh	Extempore	Participated
11	Pooja Padamgirwar	Collage	Participated
12	Pooja Padamgirwar	Clay Modeling	Participated
13	Abhishek Devdhare	Mime	Participated
14	Abhjeet Gaware	Mime	Participated
15	Aditi Raut	Indian Group song and Petriotiatic Song	Participated

**Yearwise achievement of College studnets in different cultural event in West Zone:**

<b>Academic Year 2018-19 held at Savitribai Phule Pune University, Pune</b>			
<b>Sr. No.</b>	<b>Students Name</b>	<b>Events</b>	<b>Achievements</b>
1	Siddhi Desai	Poster Making	Participated
<b>Academic Year 2019 – 20 Held at UKA, Tarsadia University, Surat</b>			
1	Khushi Satonkar	Literary	Participated
2	Shubham Godre	Quiz	Participated
3	Siddhi Desai	Fine art	Participated
<b>Academic Year 2020-21</b>			
1	No event		Pandemic Situation (COVID-19)
<b>Academic Year 2021-22</b>			
1	No event		Pandemic Situation (COVID-19)
<b>Academic Year 2022-23 Held at Ganpat University Mehasana, Gujrat</b>			
1	Pooja Padamgirwar	Collage	IV Prize
2	Jyoti Lagad	Clay modeling	IV prize
3	Neha Kadam	Skit	IV prize
4	Vaishanavi Kulkarni	Skit	IV Prize

**Yearwise achievement of College studnets in different cultural event in Indradhanushya**

<b>Academic Year 2018 – 19 Held at YCMOU, Nashik</b>			
<b>Sr. No.</b>	<b>Students Name</b>	<b>Events</b>	<b>Achievements</b>
1	Siddhi Desai	Poster Making	Participated
2	Siddhi Desai	Cartooning	Participated
3	Siddhi Desai	Spot Painting	Participated
4	Siddhi Desai	Rangoli	Participated
5	Siddhi Desai	Clay Modelling	Participated
6	Khushi Satonkar	Debate	Participated
7	Khushi Satonkar	Elocution	Participated
8	Mohit Singh	Debate	Participated
9	Mohit Singh	Extempore	Participated
10	Mohit Singh	Elocution	Participated
11	Shubham Godre	Quiz	Participated
12	Amol Rathod	Quiz	Participated
13	Durga Dhangade	Elocution	Participated
<b>Academic Year 2019-20 Held at Gonwana Vidyapeeth, Gadchiroli</b>			
1	Siddhi Desai	Poster Making	Participated
2	Jyoti Lagad	Poster Making	Participated
3	Pooja Padamgirwar	Cartooning	Participated
4	Khushbu Bhatia	Debate	Participated
<b>Academic Year 2020-21</b>			
	No event		Pandemic Situation (COVID-19)
<b>Academic Year 2021-22</b>			
	No event		Pandemic Situation (COVID-19)
<b>Academic Year 2022- 23 Held at MPKV, Rahuri</b>			
1	Abhijeet Gaware	Mime	II prize
2	Shadanan Shirale	Mime	II prize
3	Abhishek Devdhare	Mime	II prize
4	Nagesh Nirmale	Quiz	III prize
5	Jyoti Lagad	Intallation	Participated
6	Pooja Padamgirwar	Spot Painting	Participated
7	Pooja Padamgirwar	Intallation	Participated
8	Shubham Kale	Quiz	Participated

**Yearwise achievement of College studnets in different events of intercollegiate Youth Festival**

<b>Academic Year 20118 – 19 Held at College of Agriculture, Latur</b>			
<b>Sr. No.</b>	<b>Students Name</b>	<b>Events</b>	<b>Achievements</b>
1	Siddhi Desai	Clay Modelling	I prize
2	Shubham Gorde	Quiz	I prize
3	Siddhi Desai	Spot Painting	II prize
4	Siddhi Desai	Fine Art	II prize
5	Khushi Satonkar	Elocution	II prize
6	Khushi Satonkar	Elocution	II prize
7	Mohit Singh	Extempore	II prize
8	Amol Rathod	Quiz	II prize
9	Siddhi Desai	Rangoli	III prize
10	Khushi Satonkar	Debate	III prize
11	Mohit Singh	Elocution	III prize
12	Mohit Singh	Debate	III prize
13	Drurga Ghandage	Elocution	III prize
14	Shubham Kale	Folk Dance	III prize
15	Shivani Yengade		
16	Ravindra Kakde		
17	Snehal Pawar		
18	Manisha Rathod		
19	Sonali Ingale		
20	Samadhan Shirsat		
21	Shivaji Shinde		
22	Siddhi Desai	Poster Making	Consolation prize
23	Tejashwini Bhadre	Lawani	Participated
<b>Academic Year 2019 – 20 Held at KSK, College of Agriculture, Beed</b>			
1	Siddhi Desai	Poster Making	I prize
2	Siddhi Desai	Cartooning	I prize
3	Siddhi Desai	Spot Painting	I prize
4	Siddhi Desai	Collage	I prize

5	Siddhi Desai	Rangoli	II prize
6	Jyoti Lagad	Poster Making	I prize
7	Pooja Padamgirwar	Poster Making	III prize
8	Pooja Padamgirwar	Cartooning	II prize
9	Jyoti Lagad	Cartooning	II prize
10	Pooja Padamgirwar	Spot Painting	I prize
11	Pooja Padamgirwar	Collage	II prize
12	Pooja Padamgirwar	Rangoli	III prize
13	Shivani Tandale	Collage	Consolation prize
14	Pooja Padamgirwar	Clay Modelling	Consolation prize
15	Jyoti Lagad	Clay Modelling	II prize
16	Priti Rajput	Solo Music	I prize
17	Vikas Pisore	Light Vocal	I prize
18	Shrushti Gupta	Western Music	III prize
19	Khushbu Bhatiya	Debate	I prize
20	Khushbu Bhatiya	Extempore	I prize
21	Khushi Satonkar	Debate	I prize
22	Shubham Godre	Quiz	I prize
23	Khushi Satonkar	Elocution	I prize
24	Vikas Pisore	Group Song	I prize
25	Krishna Deshmukh		
26	Suvarna Choudhary		
27	Manisha Shelke		
28	Shravni Kale		
29	Rajnandini Kadam		
Academic Year 2020 – 21			
	No event		Pandemic Situation (COVID-19)
Academic Year 2021 – 22			
	No event		Pandemic Situation (COVID-19)
Academic Year 222 – 23 Held at College of Agriculture, Selu			
1	David Maria	Debate	I prize
2	Ritu Rani	Debate	I prize

3	Dipti Singh	Extempore	I prize
4	Dipti Singh	Elocution	I prize
5	Pooja Padamgirwar	Spot Painting	I prize
6	Pooja Padamgirwar	Collage	II prize
7	Pimprane M.G.	Clay Modelling	II prize
8	Pooja Padamgirwar	Poster Making	III prize
9	Vaishnavi Mese	Cartooning	III prize
10	Gaytri Khodke	Spot Painting	III prize
11	Renge S.S.	Clay Modelling	III prize
12	Jyoti Lagad	Cartooning	Consolation prize
13	Pooja Padamgirwar	Cartooning	Consolation prize
14	Dipti Singh	Poster Making	Consolation prize
15	Jyoti Lagad	Poster Making	Consolation prize
16	Shakshi Koyalkar	Poster Making	Consolation prize













#### 6.5.4.9 Personality Development:

Personality development programme is aimed at increasing employability of the students.

It includes functional programmes in, spoken skills, Reasoning, Group discussions, interview skills, Personal interviews, Quantitative ability, Verbal ability, Mock tests and some special sessions to promote the personality development in the students. A competitive forum exists at college. College has a separate placement committee actively engaged in organizing campus interviews, motivational guest lecture series of eminent scientists, students, staff members in order to develop their social and professional skills. Workshops as well as Seminars, trainings, lectures are organised on the occasion of Shiv Jayanti, Dr. Babasaheb Ambedkar Jayanti, World youth skill day, soft skill development, Agriculture day, NSS day, NCC day to create social awareness among the students.

#### Details of the personality development workshop/trainings/seminar/symposia organized during last five years.

Sr. No.	Event	Date	Guest	Purpose
<b>2018-19</b>				
1	Four day work shop for employment	22 to 25 Feb 2018	Associate Dean and principal	Work shop for unemployed youth of agriculture sector
2	Guest lecture Series on the occasion of shiv Jayanti	14 Feb 2018	Pro. Yashwant Gosavi	Motivational lecture Chhatrapati Shivaji Maharaj
3	Guest lecture Series on the occasion of shiv Jayanti	23 Feb 2018	Dr. Manjiri Kulkarni	Motivational lecture and personality development
4	Guest lecture Series on the occasion of shiv Jayanti	25 feb 2018	Shri Kalicharan Khardade (IAS) Officer on special duty Telangana Bhawan New Delhi	Motivational lecture and personality development

5	Guest lecture on “Modern History of India”	9 march 2018	Shri Avinash Dharmadhikari ex. IAS Officer	Motivational lecture and personality development
6	Guest lecture on “Plant Variety and Farmer Rights”	27 march 2018	Mrs. Pallavi Joshi	Awareness programme on plant variety and plant breeder rights, farmers right.
7	Guest lecture on “UPSC /MPSC competitive examination”	28 march 2018	Shri. Chiranjeev prasad IPS DIG Nanded Division Sandip Ghuge IAS	Personality development and Preparation of competitive examination
8	Guest lecture on “opportunities in agriculture sector”	5 april 2018	Dr. D.L. Tambhale, SAO Parbhani	Personality development and Preparation of competitive examination
9	Orientation program on RAWA	21 June 2018	Dr. D.N. Gokhale Associate Dean and Principal	Orientation program on Rural Agricultural Work Experience
10	Guest lecture on “Vasantrao naik Pioneer of green revaluation Maharashtra and their contribution in agriculture” on the occasion of Agricultural Day	01 July 2018	Dr. Ashok Dhawan Vice-Chancellor, VNMKV, Parbhani	Personality Development and Motivational Lecture
11	Guest lecture on “Manushya Jivan Ki Sarthakta”	16 August 2018	Pandit Brajesh Shastri	Motivational Lecture and Personality Development
12	Work Shop on CeRA	03 September 2018	Dr. Santosh Kadam,	Awareness regarding use of online research content
13	Orientation Programme of B.Sc. (Agriculture)	05 September 2018	Dr. A.S. Dhawan, Hon. Vice-Chancellor, Dr, V.D. Patil Director of Instruction (F/A) & Dean and Dr. D.N. Gokhale Associate Dean and Principal	Orientation of Degree Programme
14	Guest Lecture on “Leadership Development and Employment Opportunities in Army”	27 September 2018	Squadron Leader Prakash Shinde	Personality Development and awareness regarding Employment Opportunities in Army
15	Guest Lecture on “Navi Disha Navya Vata”	28 September 2018	Prof. Shrimant Kokate	Personality Development and awareness regarding Employment Opportunities in different field



16	Guest Lecture on “Social Responsibility of Youth and Future Challenges”	17 November 2018	Padmashri Adv. Ujwal Nikam	Personality Development and awareness regarding social responsibility of youth and future challenges
17	Guest lecture on “Agriculture Graduate to Agriculture Entrepreneur”	14 February 2019	Shri Vijay Bhandare Agricultural Industrialist	Awareness regarding opportunities in Agriculture Industry
18	“Motivational Lecture on Personality Development”	09 March 2019	Shri Nisar Tamboli, IPS Deputy Commissioner CID	Motivational Lecture on Personality Development
20	Work shop on Personality Development	26 & 27 March 2019	Dr. A.S. Dhawan, Hon. Vice-Chancellor, Dr, V.D. Patil Director of Instruction (F/A) & Dean and Dr. D.N. Gokhale Associate Dean and Principal	Personality Development
<b>2019-20</b>				
1	Motivational Guest Lecture on the Occasion of “Dr. Babasaheb Ambedkar Birth Anniversary”	13 April 2019	Shri Prakash Hasnalkar, Divisional Deputy Commissioner, Pune	Motivational Lecture on Dr. Babasaheb Ambedkar
2	Motivational Guest Lecture on the Occasion of “Dr. Babasaheb Ambedkar & Mahatma Jyotiba Phule Birth Anniversary”	25 April 2019	Dr. Baban Jogdand, Scientific Officer Yashwantrao Chavan Vikas Probodhani Pune	Motivational Guest Lecture
3	RAWE Orientation Programme of B.Sc. (Agriculture)	20 June 2019	Dr. D.N. Gokhale Associate Dean and Principal	RAWE Orientation of Degree Programme
4	Work shop on “Tarunyabhan”	20 to 22 June 2019	Padmashri Dr. Rani Bang, Social Worker	Work shop on Personality Development
5	Motivational Lecture	03 September 2019	Dr. Ganesh Raut, Pune	Motivational Lecture & Personality Development
6	Motivational Lecture	12 September 2019	Shri Avinash Bharti	Motivational Lecture & Personality Development
7	Orientation Programme of B.Sc. (Agriculture)	25 September 2019	Dr. A.S. Dhawan, Hon. Vice-Chancellor, Dr, V.D. Patil Director of Instruction (F/A) & Dean and Dr. D.N. Gokhale Associate Dean and Principal	Orientation of Degree Programme
8	ICAR sponsored 12 days training programme on “Integrated farming systems for doubling farmer’s income”	18 to 29 Nov., 2019	Director of Research and faculty members	Awareness and personality development



9	Guest Lecture on Indian Agricultural Economy and its strength	21 December 2019	Dr. Ashok Dalwai, CEO National Dryland Authority Govt. of India	Personality Development and awareness regarding Indian agricultural economy and its strength
10	Guest lecture on “Vivekacha Awaj Buland Karu”	11 January 2020	Shri. Avinash Patil, Executive Chairman, Andh Shradha Nirmulan Samiti, Maharashtra State	Personality Development and awareness regarding superstition
11	Guest lecture series on Competitive Examination on occasion of “Shivjayanti”	18 February 2020	Mrs. Bhagyashri Wathare, Unique Academy, Mumbai	Preparation of Competitive Examination
12	Motivational Lecture on “Shivcharitra” on the occasion of Shivjayanti	24 February 2020	Shri. Yashwant Gosavi, Motivational Speaker	Personality Development and Awareness regarding Shrimant Yogi Chhatrapati Shivaji Maharaj
<b>2020-21</b>				
1	Webinar on ‘Rational use of herbicides and integrated weed management’ by Agronomy Dept & NAHEP ( ONLINE)	24.06.2020.	Director of Instruction & Dean with faculty members	Awareness about precise herbicide use
2	International Seminar on “Digital Technologies for Smart Agriculture: A Futuristic Plan”by Parbhani Chapter of ISA ( ONLINE)	10/8/2020 to 13/8/2020	Ho. Vice chancellor Dr. Ashok Dhawan, Director of Instruction & Dean with international scientists.	Awareness about use of Digital technologies in agriculture.
3	Online Webinar on “Awareness programme on Organ Donation”	17 August 2020	Dr. Purushottam Pawar, Palghar Mumbai	Awareness programme on Organ Donation
4	Training on ‘IWM & Efficient Use of Weedicides’ under ICAR Budget for development of Scheduled Caste students (SC-SP 2020-21) by Dept. of Agronomy( ONLINE)	23/3/2021 to 25 /3/2021	Director of Instruction & Dean, Director of Research with faculty members, Online guidance by scientists from TN, AP etc.	Awareness about precise herbicide use
5	Tutorial classes on Preparing for JRF/SRF/NET/ARS Exam and other Competitive Exams in Agriculture under ICAR Budget for development of Scheduled Caste students (SC-SP 2020-21) by Dept. of Agronomy( ONLINE)	26/3/2021 to 27 /3/2021	Director of Instruction & Dean, Director of Research with faculty membersOnline guidance by scientists from Tamilnadu, AP etc.	Awareness and personality development

6	3days online training programme on “Personality Development And Life Skills” under NAHEP-CAAST-DFSRDA, VNMKV, Parbhani.	03/3/2021 to 05 /3/2021	PI, NAHEP & Faculty members	Awareness and personality development
5	National level online essay and debate competition at NAHEP Centre	11/1/2021	Dr. B.V.Aswar, Nodal officer, PI, NAHEP & Faculty members	Awareness and personality development
<b>2021-22</b>				
1	Online Webinar	04.02.2022	Smt. Shakuntala Jawnjal, Head, Shri Shivaji Law College, Parbhani	Students guidance & personality development
2	Eassy Writing Competition	08.02.2022	Associate Dean & Principal & Faculties	Personality development
3	Debate Competition	08.02.2022	Associate Dean & Principal & Faculties	Personality development
4	Inspirational Lecture	11.02.2022	Shri. Nisar A. Tamboli, IG, Nanded, Shri Devidas Pawar, Muncipal Commissoiner, Parbhani	Motivational Lecture & Personality development
5	Powada on the occasion of Shri Shiv Jayanti	16.02.2022	Shri Arvind Ghogare	Personality development & Social Awareness
6	Inspirational Lecture	17.02.2022	Shri. Nilesh Jagtap	Motivational Lecture & Personality development
7	Hands on training on Digital Technolngy in Agriculture	07.03.2022	NAHEP CAAST Team, VNMKV, Parbhani	Hands on training use of digital tools in Agriculture
8	ICAR SC-SP Plan training on Personality development & communication skill	11.03.2022 & 12.03.2022	Pro. Kushal Raut & Sachin Rane, Communicare Training & Content Solution, Pune	Personality development & communication skill
9	Workshop on Automated Advanced Digital Technology	14.03.2022 to 16.03.2022	Dr. Udhav Bhosale, Vice Chancellor SRTMAU, Nanded & Dr. Raghu Murtugude, Scientist, Florida University America, Dr. Rahul Nigam, Sciencist ISRO, Ahemedabad, Dr. Ashok Dhawan, Vice Chancellor, VNMKV, Parbhani	Awareness on Advanced Digital Technology in Agriculture
10	ICAR SC-SP Plan training on Nursery management by Horticulture department, COA, Pbn	08.03.2022 to 10.03.2022	Associate Dean & Principal & Faculties	Awareness & Skill Developement on Nursery Management
11	ICAR SC-SP Plan training on Post Harvest	22.03.2022 to	Associate Dean & Principal & Faculties	Awareness & Skill Developement on Post

	technology and value addition by Agril. Engg. Dept. COA, Pbn	23.03.2022		Harvest technology and value addition
<b>2022-23</b>				
1	18 hrs Study activity on the occasion of Dr. B.R. Ambedkar Jaynti	12.04.2022	Associate Dean & Principal & Faculties	Awareness & Personality development
2	Inspirational Lecture on the occasion of Dr. B.R. Ambedkar Jaynti	13.04.2022	Shri. Prabhakar Salegavkar, Principal Majlgav	Awareness & Personality development
3	Alumini students felicitation programme	18.04.2022	Dr. Ashok Dhawan, Vice Chancellor, VNMKV, Parbhani Dr. Yogendra Nerkar Ex. Vice Chancellor, MPKV Rahuri	Awareness & Personality development
4	Inspirational Lecture organized by Pbn chapter ISA by Dept. of Agronomy, COA, Pbn	18.04.2022	Dr. D.N. Gokhale, Dean, Dr. G.S. Jadhav Ex. Dean	Awareness & Personality development
5	Module students Milk products tasting by Shri. Aditya Thakre	10/5/2022	Shri. Aditya Thakre	Module students participation in exhibition & awareness/exposure
6	RAWE / Student Ready program orientation	26/5/2022	Associate Dean & Principal with academic faculty.	Orientation about different schedules, demonstrations and other activities in RAWE
7	Celebration of YOGA DAY	21/6/2022	Art of living Yoga teacher Prof. Divakar Joshi , Dr. Subbarao and faculty members	Awareness among the students about Yoga and health
8	NCC students training	12-21/6/22	Associate Dean & Principal with academic faculty with 61 NCC cadets	Training on different NCC activities
9	RAWE Students Activity Animal Vaccination program	30/6/2022	Staff from animal husbandry division with RAWE students and program officers	Awareness about animal health
10	RAWE Students Activity TREE PLANTATION program	1/7/2022	Smt. Anchal Goyal, DM, Parbhani ,Associate Dean & Principal , program officers	Awareness and personality development
11	Display of <i>Krishi Sanwad</i> Information corner at Department of Extension, CoA, Pbn	01/7/2022	Associate Dean & Principal, CoA, Pbn. and faculties	Awareness and personality development
12	Inspirational lecture / guidance on Competitive exam preparation	07/9/2022	Shri. Sachidanand Nimbalkar	Awareness and personality development
13	Rangoli competition Theme <i>AGRICOS Bappa</i>	09/9/2022	Associate Dean & Principal, CoA, Pbn. and faculties	Awareness and personality development

14	Inspirational lecture / guidance on Opportunities in Agril. sector for PG students	17/9/2022	Shri. Girish Palaskar	Personality development
15	15 days CLEAN CAMPAIGN activity at CoA, Pbn.	2/10/2022 to 16/10/2022	Associate Dean & Principal, CoA, Pbn. and faculties	Social Awareness and personality development
16	Welcome program for UG students	20/1/2022	Hon. VC Dr. Indramani, Dean Dr. D.N. Gokhale and Shri. Mahesh Patil for guidance	Awareness and personality development
17	Celebration of Republic day	26/1/2023	Associate Dean & Principal, CoA, Pbn. and faculties	Social Awareness and personality development
18	Inspirational lecture	13/2/2023	Shri. Akash Patil, Speaker	Awareness and personality development
19	Inspirational lecture	16/2/2023	Shri. Kailash Tidke, Speaker	Awareness and personality development
20	POWADA on Chatrapati Shivaji life	17/2/2023	Shri. Ramanand Ugale, Shivshahir	Social awareness and personality development



**Creation of Information Corner Month- 15<sup>th</sup> August 2022    Topic- Azadi ka Amrut Mahostav**



**Special Programme for College of Agriculture student on “Tarunya Bhan” by welknown social worker Dr. Rani Bang (Search Foundation, Gadchiroli)**

#### 6.5.5. Physical Facilities:

The infrastructure facilities play an important role in organization of the College activities i.e. teaching, research and extension education. Since the inception of the college, the college has made adequate efforts to develop the required infrastructure facilities namely academic block lecture halls, a well equipped laboratory in the college, library, staff quarters, students’ health centre, play grounds, guest houses, scientist home, farm cattle shade, gardens, farms, irrigation facilities and so on.

#### **Institutional land area**

The Information regarding institutional land area and map is available with the University Engineer

Sr.No	Facility	Hectare / Sq.m
1	Land	114.17 ha
2	Academic building	Two floor
3	Office of the Associate Dean & Principal & Other	20 x 28
4	Education branch	30 x 30
5	Account office	30 x 30
6	NSS Hall	30 x 30
7	Computer room	20 x 20
8	Store room	10 x 10
9	Examination room	10 x 10
10	Fees branch	10 x 10
11	Cash room & other	10 x 10
12	Class room (6)	45 x 25
13	Examination hall (2) I & II Floor	150x50(Ft)



**Infrastructure facilities (Floor space required)**
**A. Central Facilities**

Sr. No.	Details	No.of Rooms	Dimensions (in ft)
1.	Dean Office	1	20x24
2.	P.A. Room	1	10x12
3.	Committee Room with video conferencing facility	1	20x50
4.	Assistant Administrative Officer /Estate manager including staff	1	20x40
5.	Assistant Accounts Officer including staff	1	20x12
6.	Exam Cell (300 capacity)	2	150x50
7.	Evaluation Room	1	20x10
8.	Faculty Room (Ladies)	1	10x12
9.	Faculty Room (Gents)	1	20x12
10.	Placement Cell	1	20x12
11.	Smart Lecture Halls	4	40x30 (80 capacity)
12.	Auditorium	1	250x120
13.	Common Utility Room	1	20x36
14.	Central Laboratory	1	50x40
15.	Hostels including Mess, Gym/Indoor, Reading Room, Warden Room, Store etc.	(boys)03	498 capacity
16	Canteen	(girls) 03	372 girls
		1	20x12 (kitchen with store)
17.	Wash room (with toilet & urinary facilities)	10	60x40 Seating
			20x12 (keeping ladies requirements)
18.	Parking space		As per requirement
19.	Farm stores, threshing yards including implements and tractor sheds	One core complex	YES
20.	Vehicles		
	i. Car	1	--
	ii. Jeep/Car staff	2	--
	iii. Tractors	2	02
21.	Drinking water and irrigation facilities		As per requirements
22.	Vehicles shed	2	120x20

**Central Instrumentation Cell**

College is having central instrumentation cell with modern equipments like AAS, HPLC, GTMR, GC, Canopy meter, IR Thermometer, GPS, UV spectrometer, Incubator, ovens, electronic balances, laminar flow etc.

**Computer Centre**

No. of terminals	Configuration	No. of supporting Units	
		UPS	Printer
35	Thin clients Server	1 10 KVA online	1

There is separate building for central computer cell in the building in which 35 computers are established for exclusive use of students.

**Seminar Hall**

Each department of the college is having seminar hall with sufficient space for conducting staff/guest lectures and student seminars of regular course work. The seminar hall is equipped with all audio visual aids such as PA equipments, LCD projector and one computer system.

**Canteen**

College is having separate canteen in the campus.

**6.5.5.1 Hostels:****Boys' hostel**

The college is having five boy's hostels and one high quality international hostel. The hostel is attached with separate mess facilities.

**Hostel facilities available at this College.**

Sr. No	Name of Hostel	Total Capacity	Student/ room	Mess facility	Drinking water	Indoor games	Cleaning of hostel premises	Transport facilities	Emergency medical facilities
1	Grishma Boy's hostel	150	02	Yes	Yes	No	Yes	No	Yes
2	Nagnath Boy's hostel	190	Ph.D. -01 M.Sc.-02 B.Sc. - 02	Yes	Yes	Yes	Yes	No	Yes
3	Vaidyanath Boy's hostel	150	M.Sc.- 02 Ph.D.- 01 Sprdha Manch - 02	Yes	Yes	No	Yes	No	Yes
4	International Boys hostel	08 (Suite)	UG-01 PG-01 Ph.D.-01	Kitchen	Yes RO in each room	No	Yes	No	Yes



**Grishma Boys' Hostel**



**Nagnath Boys' Hostel**



**Vaidyanath Boys' Hostel**

### **Girls' hostel**

At present the college is having three girls hostel with attached mess. However, considering per cent reservation for admission to ladies and growing interest of the girl students in taking admission, the present girl's hostel facility is inadequate.

Hence, one separate hostel with accommodation capacity of 100 girl's students is needed.

**Hostel facilities available at this College for girl students.**

Sr. No	Name of Hostel	Total Capacity	Student/room	Mess facility	Drinking water	Indoor games	Cleaning of hostel premises	Transport facilities	Emergency medical facilities
1	Uttara Girl's Hostel	164	04	Yes	Yes	Yes	Yes	No	Yes
2	Rajmata Jijau Girl's Hostel	84	03	Yes	Yes	No	Yes	No	Yes
3	Vasundara Girl's Hostel	24	03	Yes	Yes	No	Yes	No	Yes
4	Savitribai Girl's Hostel	48	03	Yes	Yes	No	Yes	No	Yes

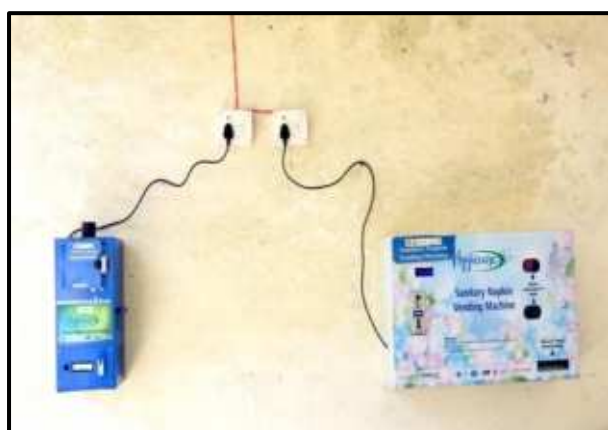


**Uttara Girls' hostel**



**Rajmata Girls' hostel**





#### 6.5.5.2 Examination Hall

The college is providing very good educational atmosphere to the students by providing well equipped examination hallcum classroom.

## 1. Examination Hall

Sr. No.	Classroom No.	Capacity
<b>❖ Classrooms At College of Agriculture, Parbhani</b>		
1	Ajanta Hall	320
2	Elora Hall	320
3	Classroom No. 1	100
4	Classroom No. 2	100
5	Classroom No. 3	100
6	Classroom No. 4	100
7	Classroom No. 5	100
8	Classroom No. 6	100
<b>❖ Department of Agronomy</b>		
1	Classroom No. 1	40
2	Classroom No. 2	40
3	Classroom No. 3	40
4	Classroom No. 4	20
5	Classroom No. 5	20
6	Seminar Hall	30
<b>❖ Department of Genetics and Plant Breeding, Plant Physiology and Seed Science &amp; Technology</b>		
1	Classroom No. 1	20
2	Classroom No. 2	40
3	Classroom No. 3	40
4	Classroom No. 4	40
5	Classroom No. 5	40
6	Classroom No. 6	40
7	Seminar Hall	30
<b>❖ Department of Animal Husbandry &amp; Dairy Science</b>		
1	Classroom No. 1	25
2	Classroom No. 2	40
3	Classroom No. 3	40
4	Classroom No. 4	40
<b>❖ Department of Agril. Economics</b>		
1	Classroom No. 1	40
2	Classroom No. 2	40
<b>❖ Department of Agril. Meteorology</b>		
1	Classroom No. 1	40
2	Classroom No. 2	20
<b>❖ Department of Agril. Entomology</b>		
1	Classroom No.1	40
2	Classroom No.2	40
<b>❖ Department of Agril. Engineering</b>		
1	Classroom No.1	60
2	Classroom No.2	60
<b>❖ Department of Agril. Extension Education</b>		
1	Classroom No. 1	30
2	Classroom No. 2	30

3	Classroom No. 3	20
4	Classroom No. 4	20
<b>❖ Department of Horticulture</b>		
1	Classroom No. 1	80
2	Classroom No. 2	40
<b>❖ Department of Plant Pathology</b>		
1	Classroom No. 1	40
2	Classroom No. 2	40
<b>❖ Department of Soil Science</b>		
1	Classroom No. 1	40
2	Classroom No. 2	40

#### **6.5.5.3 Sports and Recreation Facilities:**

The college is having separate playground. However, as the college is in the campus in the university, University playground is being used by the students for the events like kabaddi, khokho, football, basketball, cricket, long jump and high jump, which are arranged at one place. Water supply facility to the playground is also available. The provision of floodlights to the basketball court is also made. Table tennis facility is available at one place. Permanent badminton court with light arrangements is also available separately. A gymnasium hall, where 30 students can be accommodated at a time is available equipped with a station multi-gym.

#### **Details regarding status of physical education facilities.**

<b>Sr. No.</b>	<b>Games and sports</b>	<b>Equipment and infrastructure available</b>	<b>indoor / Out door</b>
1	Kabaddi, Kho-Kho, Volley ball ground	120 x 140 m ground	Out door
2	Gym	30 Gym items	indoor
3	Cricket, Handball, Football ground	130 x 150 ground	Out door
4	Badminton and Table Tennis hall	2 badminton courts and 1 table Tennis hall	indoor
5	Basket ball courts	2 courts and material	Out door
6	Athletics	400 m running track	Out door

#### **6.5.5.4 Auditorium:**

Does the college have Auditorium? Yes

Mention its year of construction 1956.

Sitting capacity 675 person

Frequency being used for the college function. On an average 30/year



**Auditorium, College of Agriculture Parbhani**

#### **6.5.5.5 Exhibition Hall/Museum:**

##### **Museum (01)**

Agriculture museum is established at College of Agriculture, Parbhani in order to know the various Educational and Agricultural technologies developed by VNMKV, Parbhani for Students and Farming community. More highlights are given on the development of Agriculture from old age to modernize one here the student must know the difference of old age practices and the new one so that he can be educated how the development had taken place in agriculture sector years together and what needs to develop in future. So this museum will help our students to develop the scientific view and approach. Second part is covered with recent technologies developed by our University in various crops grown in the region viz. Varieties of various crops with the characters ,Various disease and pest of different crops, Models of Various Agro systems,Seed displays and important

package of practices of important crops of Marathwada region which will be useful to the farming community.

### 6.5.6 Research Facilities:

Department wise PG laboratories and equipments housed in the individual laboratories are mentioned as under.

#### 6.5.6.1 Post graduate Laboratories and Equipments:

Laboratory	Sr.No	List of major equipment	Remark
Department of Agronomy			
PG Laboratory	1	N-analyser,	Sufficient for P.G.. student
	2	Flame photometer,	
	3	Ultra visible	
	4	Spectrophotometer,	
	5	Soil moisture meter and leaf area meter,	
	6	TDR, Porometer,	
	7	Neutron probe,	
	8	Pressure plate and pressure membrane apparatus,	
	9	Infiltrometer,	
	10	Brix sacchrometer,	
	11	Hand refractometer,	
	12	Polarimeter,	
	13	Lux meter	
Department of Genetics and Plant Breeding, Plant Physiology and Seed Science & Technology			
PG Laboratory	1	Automatic/conveyer belt Leaf area meter	Need special ICAR Fund for additional equipment
	2	Root Analyzer System	
	3	Gel documentation system	
	4	Soil Moisture Meter Model	
	5	Chlorophyll Meter Model SPAD 502	
	6	Digital Flame Photometer	
	7	Seed Germinator	
	8	Compound Microscope	
	9	Refrigerated centrifuge -8 <sup>0</sup> C	
	10	Deep freezer 265 Ltr. -20 <sup>0</sup> C	
	11	P <sup>H</sup> Meter	
	12	Leaf area meter (Portable )	
	13	Lilliput Cotton Ginning Machine	
	14	BOD Incubator	
	15	Conductivity Meter	
	16	Spectrophotometer	
	17	Digital oven	
	18	Auto Clave	
	19	Sohxlet Apparatus	
Department of Animal Husbandry& Dairy Science			
PG Laboratory	1	P <sup>H</sup> meter	
	2	Milk analyzer	
	3	Burk cooler	



	4	Colony counter	
	5	Shrikhand machine	
	6	Paneer press	
	7	Muffle Furness	
	8	Dryer	
	9	Ice-cream hand freezer	
	10	Milk boiler	
	11	Khoa polishing machine	
	12	Khoa making machine	
	13	Milk ageing vat	
	14	Ice-cream making machine	
	15	Mix Cum Grinder	
	16	Lactometer	
	17	Butyrometor	
	18	Richmond Scale	
Department of Agril. Economics			
PG Laboratory	1	K-yan intractive integrated computer	
Computer Laboratory	1	10 terminals with internet facilities	
Department of Agril. Meteorology			
Agrometeorologi cal observatory	1	Surface Agrometeorolgical instruments	Yes
One Computer Lab	2	Five Computer in lab with internet	Yes
Field laboratory	3	Leaf Area Meter,	Required instruments of soil moisture, radiation
	4	infra red thermometer,	
	5	Hot air oven,	
	6	weighing balance	
Field laboratory	1	Meteorological observatory Instruments	
	2	Automatic weather station	
	3	Leaf Area Meter	
	4	Line quantum sensor	
	5	Infra red thermometer	
	6	Hot air over	
	7	Weighing balance	
	8	Lux meter	
	9	Whirling Psychrometer	
Department of Agril. Entomology			
PG laboratory	1	Plant protection equipments, BOD	
	2	BOD,	
	3	Microscopes,	
	4	Insect rearing equipments,	
	5	Sprayers,	
	6	Dusters	
Pesticide Research laboratory	1	GLC, Equipments for pesticide residue extraction, Deep freeze, Distillation unit	

Bio control unit	2	Bio-control agents rearing equipments	
Sericulture unit	3	Silkworm rearing equipments	
Department of Agril. Extension Education			
04 Villages College Extension Block	1	LCD projectors (02) audio system	Related with the social science in all we have selected 04 villages under college extension block which acts as field laboratory
Department of Horticulture			
PG Laboratory	1	Systronics UV visible spectrophotometer	
	2	Mini tray drying oven	
	3	Analytical Balance	
	4	CM-12Plus Remi cooling centrifuge (Micro centrifuge)	
	5	Juice press MSW-613, Ethylene Analyser	
	6	CFEZ-45, Coloflex Sample cup set	
	7	Lamina Air Flour	
	8	Hunter colour lab and glass wares etc	
Department of Plant Pathology			
PG Laboratory	1	Laminar Air Flow	Sufficient for P.G. student
	2	Hot air oven	
	3	BOD Incubator	
	4	pH meter	
	5	Refrigerator	
	6	PCR	
	7	ELISA- washer	
	8	Reader	
	9	Printer	
	10	Gel Electrophoresis unit	
	11	Double Beam UV Spectrophotometer	
	12	Refrigerated Centrifuge (24,000 rpm)	
	13	pH meter	
	14	Ice flecking machine	
	15	Microwave oven	
	16	Deep Freeze	
Department of Soil Science			
LTFE Lab	1	pH Meter	Sufficient for P.G.
	2	EC Meter	

	3	Flame photometer	student
	4	Spectrophotometer	
	5	Hot air oven	
	6	Distillation Unit	
	7	Shakers	
	8	Soxhlet's Apparatus	
Bio fertilizer Lab	1	Autoclave	Sufficient for P.G. student
	2	Laminar Flow	
	3	Horizontal Shaker	
CIC-I	1	Total Organic carbon analyzer	Sufficient for P.G. student
	2	Atomic Absorption Spectrophotometer	
	3	Hydride Generator	
	4	UV Spectrophotometer	
	5	Flame photometer	
	6	pH meter	
	7	EC meter	
	8	N- Analyser	
	9	Microwave Digester	
	10	Shakers	
	11	Hot Air Oven	
	12	Double Distillation Unit	
	13	Leaf Area Meter	
	14	Colony Counter	
	15	Centrifuge	
	16	Auto titration	
CIC-II	1	Spectrophotometer	
	2	Flame photometer	
	3	pH meter	
	4	EC meter	
	5	Shakers	
	6	Double Distillation Unit	

\* Total Laboratories - 17

### 6.5.6.2 ResearchContingency:

Sr. No.	Year		Amount of Research contingency (In Lakh)	Whether it meats students demand
1	2018-19	Contingence	Rs.129.78	Needs additional grant from ICAR
		ICAR grants	Rs. 15.00	
2.	2019-20	Contingence	Rs. 55.32	Needs additional grant from ICAR
		ICAR grants	Rs. 33.25	
3.	2020-21	Contingence	Rs. 01.50	Needs additional grant from ICAR
		ICAR grants	Rs. 07.50	
4.	2021-22	Contingence	Rs. Nil	Needs additional grant from ICAR
		ICAR grants	Rs. 21.00	
5.	2022-23	Contingence	Rs. 10.00	Needs additional grant from ICAR
		ICAR grants	Rs. Nil	

### 6.5.7 Outcome/Output

#### STUDENT DEVELOPMENT

The college has an independent office of President Gymkhana for student's welfare which coordinates student's welfare activities and nurtures the students to face the challenges of the world. To increase competitive spirit and to develop excellence, the college organizers inter collegiate sports and cultural activities and also participates in the inter university, state level and ICAR competitions. The activities encompass sports, recreation, NSS, NCC, medical attention and guidance for gainful employment. A separate NSS and NCC unit is functioning which inculcates discipline among the students and promote the spirit of social service.

The students of the college while completing their degree programmes appear for different examinations like UGC/CSIR/JRF,SRF,JRE, TOFEL, Civil services examination, GATE and the examinations conducted by the sports authorities of India and NCC. To help the students for preparation of these examinations at state, national and international level college has a separate cell namely student's placement and counselling cell, besides this Associate Dean and Principal holds the meeting with faculty and students to discuss preparation of examination.



Special Programme for College of Agriculture student on “**Tarunya Bhan**” by welknown social worker **Dr. Rani Bang** (Search Foundation, Gadchiroli)



Special Programme for College of Agriculture student on “युवकांची सामाजिक जबाबदारी व भविष्यातील आव्हाने” by welknown **Padmashri Adv. Ujjwal Nikam**



**6.5.7.1 Student performance in National Examination:**
**Students' status in State / National level scholarship & Fellowship during last five years (UG)**

Sr. No.	Type of Scholarship / Fellowship	Sanction Scholarship per year students				
		2018-19	2019-20	2020-21	2021-22	2022-23
1	Govt.of India Scholarship	436	421	478	525	310
2	Central Sector Scholarship	66	72	42	36	23
3	National Talent Scholarship	31	43	43	67	100
4	Merit Cum Mean Scholarship	--	2	--	--	--
5	Handicap Scholarship (on NSP)	2	4	1	2	2
6	Handicap Scholarship (on DBT)	6	-	5	5	3
7	RAWE	213	181	184	332	236
8	EBC ( Chattrapati Shahu Maharaj Shishyavrutti Yojana	89	109	101	112	60
9	Dr.Panjabrao Deshmukh Vastigruh Nirvah Bhatta Yojana	126	101	189	194	110
10	Umbrela Scholarship for Arunachal Pradesh Students	1	--	--	1	1
	<b>Total</b>	<b>970</b>	<b>933</b>	<b>1043</b>	<b>1274</b>	<b>845</b>

**Students' status in State / National level scholarship & Fellowship during last five years (PG)**

Sr. No.	Type of Scholarship / Fellowship	Sanction Scholarship per year students				
		2018-19	2019-20	2020-21	2021-22	2022-23
1	Govt.of India Scholarship	141	--	68	131	88
2	Central Sector Scholarship	--	--	--	--	--
3	National Talent Scholarship	16	26	60	60	47
4	Handicap Scholarship (on NSP)	--	--	--	--	--
5	Handicap Scholarship (on DBT)	--	--	--	--	--
6	RAWE	--	--	--	--	--
7	EBC ( Chattrapati Shahu Maharaj Shishyavrutti Yojana	23	--	36	26	28
8	Dr.Panjabrao Deshmukh Vastigruh Nirvah Bhatta Yojana	--	--	--	56	40
9	PG Indira Gandhi Scholarship for Single Girls Child (on NSP )	--	--	--	--	3
10	Junior Research Fellowship (JRF)	3	3	5	4	4
	<b>Total</b>	<b>183</b>	<b>29</b>	<b>169</b>	<b>277</b>	<b>210</b>

**Students' status in State / National level scholarship & Fellowship during last five years (Ph.D.)**

Sr. No.	Type of Scholarship / Fellowship	Sanction Scholarship per year students				
		2018-19	2019-20	2020-21	2021-22	2022-23
1	Chhatrapati Shahu Maharaj Research, Training & Human Development Institute, Pune ( <u>SARTHI</u> )	13	21	27	37	37
2	Mahatma Jyotiba Phule Research and Training Institute, Nagpur ( <u>MAHAJYOTI</u> )	--	4	9	17	17
3	Dr.Babasaheb Ambedkar Research and Training Institute, Pune ( <u>BARTI</u> )	--	3	3	3	--
4	National Fellowship for Higher Educated for ST Students Ministry of Tribal Affairs Govt.of India ( <u>NFST</u> )	--	2	2	2	--
5	ICAR Senior Research Fellowship ( <u>SRF</u> )	--	1	1	1	1
6	INSPIRE Fellowship under Inspire Programme Ministry of Science and Technology, Govt. of Maharashtra ( <u>INSPIRE</u> )	3	--	1	1	1
7	Short-Term Doctoral Fellowship- Indian Council of Social Science Research (ICSSR)	1	--	--	--	--
	<b>Total</b>	<b>17</b>	<b>31</b>	<b>43</b>	<b>61</b>	<b>56</b>

Sr. No.	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23
1	Selection in National Examination	05	03	04	16	09
2	JRF/SRF/ARS	-	-	-	03	01
2	NET Exam	12	07	11	52	Result Awaited

**6.5.7.2 Students' Placement Profile**

The details of the placement of the UG, PG and Ph.D. students of this College during last five years are mentioned as under.

**Placement of B.Sc. (Agri) students during last five years**

Sr. No	Particulars	Academic Year				
		2018-19	2019-20	2020-21	2021-22	2022-23
1	Student Admitted	200	237	228	232	146
2	Student Left	09	12	11	09	09
3	Students Admitted for Higher Education	52	83	23	55	61
4	Selection in Private Job	24	33	11	05	04
5	Selection in Government Job	05	11	02	03	01
6	Selection in Bank	12	20	10	08	01
7	Farming / Business	07	11	09	04	01
	<b>Total</b>	<b>100</b>	<b>158</b>	<b>55</b>	<b>75</b>	<b>77</b>

**Placement of M.Sc. (Agri) students during last five years**

Sr. No.	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23
1	Students Admitted	134	153	154	172	147
2	Students Left	11	08	16	12	08
3	Students Admitted for Higher Education	00	20	28	24	33
4	Selection in Private Job	31	38	41	40	12
5	Selection in Government Job	22	24	13	12	05
6	Selection in Bank	12	06	04	04	03
7	Farming / Business	07	03	03	06	00
	<b>Total</b>	<b>72</b>	<b>91</b>	<b>89</b>	<b>86</b>	<b>63</b>

**Placement of Ph.D. students during last five years**

Sr. No	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23
1	Students Admitted	33	40	33	35	37
2	Student left	02	04	04	02	01
3	Students Admitted for Higher Education	00	00	00	00	00
4	Selection in Private Job	19	23	14	13	12
5	Selection in Government Job	15	10	15	14	11
6	Selection in Bank	00	00	00	00	00
7	Farming / Business	00	00	01	01	00
	<b>Total</b>	<b>34</b>	<b>33</b>	<b>30</b>	<b>28</b>	<b>23</b>

**Students' performance in National Examinations during last five years.**

Sr. No.	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23
1	Selection in National Examination	05	03	04	16	09
2	JRF/SRF/ARS	-	-	-	03	01
2	NET Exam	12	07	11	52	Result Awaited

**6.5.7.3 Award/Recognitions/Certificates:**

Details of yearwise information of awards, recognitions conferred on faculty and students during last five years given as under.

**Yearwise information of awards, recognitions, certificates, prizes during last five years.**
**STUDENTS**

Sr. No.	Year	Degree course UG/ PG/Ph. D.	Reg. No.	Name of the student	Students Awards/ recognitions/ certificate/ Any other
<b>Department of Agril. Entomology</b>					
1	2020	M.Sc. Agri	2015A/67M	Dr. Y.B. Matre	Best Master Thesis Awards by ATDES Merrut (UP)
2	2021	Ph.D.(A gri.)	2018A/14P	Dr. R.Y. Khandare	Young Scientist Awards 2021 by Society of Agricultural Research & Social Development, New Delhi.
3	2022	Ph.D.(A gri.)	2016A/15P	Dr. B.B.Gaikwad	Young Scientist Awards 2022 by Society of Tropical Agriculture, New Delhi.
4	2022	Ph.D.(A gri.)	2016A/15P	Dr. B.B.Gaikwad	Best Innovative & Extension Involver awards by Agro Care Krushi Manch Nashik.
<b>Department of Agil. Meteorology</b>					
1	2022	M.Sc. Agri	2020A /17M	Mr. Chougule Ankush Bharat	Poster presentation
<b>Department of Agril. Extension Education</b>					
1	2022-23	Ph.D.(A gri.)	2019/21P	Ms. Londhe Shital	Paper Presentation Cash Prize in 24 <sup>th</sup> National Conference of Maharashtra Society of Agricultural Economics organized during May 5-6 , 2022 at Goa
2	2022-23	Ph.D. (A gri.)	2020/19P	Mr. Shende Santosh	Best Oral Presentation Award in 24 <sup>th</sup> National Conference of Maharashtra Society of Agricultural Economics organized during May 5-6 , 2022 at Goa
3	2022-23	Ph.D.	2020/18P	Ms. Holmukhe	Cash Prize in 24 <sup>th</sup> National Conference

		(Agri.)		Sangita	of Maharashtra Society of Agricultural Economics organized during May 5-6 , 2022 at Goa
4	2022-23	Ph.D.(A gri.)	2020/17P	Ms. B. Padmaja	Best Poster Presentation Award in the Annual Post Graduate Student's National Conference organized during May 6-7, 2022 at Bapatla.
<b>Department of Plant Pathology</b>					
1	2021	M.Sc. (Agri.)	2018A/92M	Gadade T.P.	Best poster presentation award for paper “ <i>In vitro</i> efficacy of different bio-agents against <i>Colletotrichum orbiculare</i> (Berkely and Montagne) von Arx causing Anthracnose of cucumber ( <i>Cucumis sativus</i> L.)’ in the “IPS National Symposium (West zone) held on 25-26 Feb., 2021 at Department of Plant pathology, College of Agriculture Akola.
2	2021	M.Sc. (Agri.)	2019A/108M	Mukesh Kumar	Best poster presentation award in Indian Phytopathological Society (West Zone) National Symposium on “Achieving Sustainability in Crop Production Through Alimentation and Plant Protection”’ during 17 <sup>th</sup> – 18 <sup>th</sup> November, 2021 at College of Agriculture, Latur.
3	2023	Ph.D.	2018A/16P	Navale M.D.	Best Poster Award for Research Paper “Eco-friendly management of dry root rot of Safflower” in the IPS Platinum Jubilee Conference held at University of Mysore, Mysuru, Karnataka, India during February 2-4, 2023.
<b>Department of Soil Science</b>					
1	2017-18	M.Sc. (Agri.)	2018A/19P	Ingole Akshay Jaydevarao	Late Dr. Ghanshyam Urkuda Malewar Cash Prize Master of Science (Agriculture)
2	2017-18	M.Sc. (Agri.)	2018A/19P	Ingole Akshya Jaydevorao	Parbhani Chapter of Indian Society of Soil Science, VNMKV, Parbhani Cash Prize Master of Science (Agriculture)
3	2018- 19	M.Sc. (Agri.)	2017A/111M	Kalpana Yadav	Late Shri Bhiku Ramji Varade Silver Medal Master of Science (Agriculture)
4	2018-19	M.Sc. (Agri.)	2017A/111M	Kalpana Yadav	Late Dr. Ghanshyam Urkuda Malewar Cash Prize Master of Science (Agriculture)
5	2018-19	M.Sc. (Agri.)	2019A/26P	Bagmare Rakesh Ramesh	Indian Society of Soil Science, VNMKV, Parbhani Best Dissertation Award Cash Prize Master of Science (Agriculture)
6	2018-19	Ph.D. (Agri.)	2015A/110P	Bonge Chetana Onkar	Late Gangaram Bhagwantrao Rudraksh Cash Prize Ph.D. (Agri.)
7	2019-20	M.Sc. (Agri.)	2018A/114M	Satwadhar Priya Prabhakar	Late Shri Bhiku Ramji Varade Silver Medal Master of Science (Agriculture)
8	2019- 20	M.Sc. (Agri.)	2018A/114M	Satwadhar Priya Prabhakar	Late Dr. Ghanshyam Urkuda Malewar Master of Science (Agriculture)
9	2019- 20	M.Sc. (Agri.)	2018A/114M	Satwadhar Priya Prabhakar	Parbhani Chapter of Indian Society of Soil Science, VNMKV, Parbhani Master of Science (Agriculture)



10	2019- 20	Ph.D. (Agri.)	2015A/43PI	Adsul Prabhakar Baurao	Late Gangaram Bhagwantrao Rudraksh Ph.D. (Agri.)
11	2020- 21	M.Sc. (Agri.)	2019A/120M	Digvijay Dhama	Late Shri Bhiku Ramji Varade Silver Medal Master of Science (Agriculture)
12	2020-21	Ph.D. (Agri.)	2018A/114M	Todmal Sanjay Machhindra	Late Gangaram Bhagwantrao Rudraksh Cash Prize Ph.D. (Agri.)
13	2020- 21	M.Sc. (Agri.)	2019A/120M	Digvijay Dhama	Late Dr. Ghanshyam Urkuda Malewar Master of Science (Agriculture)
14	2020-21	Ph.D. (Agri.)	2016A/27P	Ghode, M.K.	Best Ph.D. Thesis Oral Presentation Award During State level seminar Dapoli Chapter of Indian Society of Soil Science Dr. BSKKV, Dapoli
15	2020-21	(M.Sc. Agri.)	2019A/115M	Shubhangi Avte	Best M.Sc. Thesis Award Parbhani Chapter of Indian Society of Soil Science
16	2020-21	Ph.D. (Agri.)	2019A/28P	Nikhil Patil	Best Poster Presentation Award 86 <sup>th</sup> Annual Convention of Indian Society of Soil Science (ISSS) and National Seminar on Development in Soil Science 2022
17	2020-21	Ph.D. (Agri.)	2019A/26P	Bagmare Rakesh Ramesh	Best Master Research Presentation at State Level Seminar Dr.PDKV,Akola
18	2020-21	Ph.D. (Agri.)	2019A/26P	Bagmare Rakesh Ramesh	Best Poster Presentation Award at State Level Seminar Dr.PDKV,Akola
19	2020-21	Ph.D. (Agri.)	2018A/19P	Ingole Akshay Jaydevarao	Best Poster Presentation Award at National Seminar, New Delhi
20	2020-21	Ph.D. (Agri.)	2018A/19P	Ingole Akshay Jaydevarao	Young Scientist Award at ATDS, Gaziabad U.P.
21	2020-21	Ph.D. (Agri.)	2018A/20P	Todmal Sanjay Machhindra	Best Poster Presentation Award at State Level Seminar Dr.BSKKV,Dapoli

**Gold Medalists students of B.Sc. (Agri.)**

Sr.No.	Name of the Student	Year	Medal
1	Lakashmi R.	2018	Gold Medal
2	AK Rahna	2019	Gold Medal
3	Patil Rutuja	2020	Gold Medal
4	Bhosale Durga	2021	Gold Medal

**Gold Medalist students of M.Sc. (Agri.)**

Sr.No.	Name of the Student	Year	Discipline	Medal
1	Aniket Ambadasrao Patil	2019-20	Agronomy	Gold Medal
2	Gopika L	2020-21	Agril. Ento	Gold Medal
3	Kesoju Ravali	2020-21	GPB	Gold Medal
4	Digvijay Dhama	2020-21	SSAC	Gold Medal



**Yearwise information of awards, recognitions, certificates, prizes conferred on faculty members during last five years.**

Sr. No.	Year	Name of faculty	Awards/ recognitions/ certificate/ Any other
<b>Department of Agronomy</b>			
1	2018-19	Dr.B.V.Asewar	▪ ICAR Award Vasantao Naik National award for application of research in agriculture.
2	2018-19	Dr.M.P.Jagtap	▪ ICAR Award Vasantao Naik National award for application of research in agriculture.
3	2021-22	Dr. W.N. Narkhede	▪ Agrocure Idol Award
4	2020-21	Dr.B.V.Asewar	▪ ISA Councillor
5	2021-22	Dr.B.V.Asewar	▪ ISA Fellow 2021, ISDA Vice- presidents
6	2021-22	Dr. S.U.Pawar	▪ Agrocure Idol Award
7	2020-21	Dr. Mirza IAB	▪ PATENT on BIOSTIMULANT Intellectual Property India
<b>Dept. of Agril. Entomology</b>			
1	2018-19	Dr.P.S.Neharkar	▪ Excellence in Teaching Award 2018 in International Conference on Advances in Agriculture and Allied Science Technologies for Sustainable Development Osmaniya University Hyderabad. Awarding Authority/ Institute is GUARD Hyderabad.
2	2018-19	Dr. M M Sonkamble	▪ Excellence in Teaching Award 2018 in International Conference on Advances in Agriculture and Allied Science Technologies for Sustainable Development Osmaniya University Hyderabad. Awarding Authority/ Institute is GUARD Hyderabad.
3	2018-19	Dr. N E Jayewar	▪ Outstanding Achievement Award 2018 in International Conference on Advances in Agriculture and Allied Science Technologies for Sustainable Development Osmaniya University Hyderabad. Awarding Authority/ Institute is GUARD Hyderabad.
4	2019-20	Dr.P.S.Neharkar	▪ Appreciation for commendable & outstanding work in the organization of 22 <sup>nd</sup> National Conference of MSAE, Dept. of Agril. Economics, VNMKV Parbhani 2019
5	2019-20	Dr. D. R. Kadam	▪ Certificate of Appreciation (2019-20) for special contribution in 22nd National Conference of Maharashtra Society of Agril. Economics
6	2019-20	Dr. D. R. Kadam	▪ Certificate of Appreciation (2019-20) by Society of Pesticide science, ICAR, New Delhi for Participation and input as reviewer of Pesticide Research Journal
7	2020-21	Dr. P R Zanwar	▪ Outstanding Agricultural Scientist Award 2020 in B. Vasantaraj David Foundation, Chennai (2nd National Conference on Recent Scientific Advances in Agricultural and Environmental Science on 5th December 2020)
8	2021-22	Dr. A G Lad	▪ Best Oral Presentation Award in National Symposium (IPS-WZ, New Delhi) 'Achieving Sustainability in Crop Production Through Alimentation and Plant Protection" 17-18 Nov., 2021

			at Dept. of Plant Pathology, COA, Latur
<b>Department of Agril. Extension Education</b>			
1	2018-19	Dr. Lad A.S.	▪ Young Teacher Award by Madhumita Foundation in National Conference on Promoting reinvigorating Agri-Horti technological innovations held during Dec. 15-16, 2018
2	2021-22	Dr. R.P.Kadam	▪ Awarded as fellow of the “Scholars Academic and Scientific Society” on 14 <sup>th</sup> May. 2021 by Scholars Academic and Scientific Society.
3	2021-22	Dr. R.P.Kadam	▪ Awarded with Reviewer Excellence Award on 20 <sup>th</sup> Jan.2022 as reviewer of Agricultural Science Digest by Agricultural Research Communication Center.
<b>Dept. of Plant Pathology</b>			
1	2018-19	Dr.V.M.Gholve	▪ Best Poster Presentation award in National Symposium organized by Indian Phytopathological Society during 23 <sup>rd</sup> - 24 <sup>th</sup> August 2018 at Goa
2	2018-19	Dr.V.M.Gholve	Contribution in : ▪ State Released of <i>Kharif</i> sorghum variety Parbhani Shakti (PVK 1009) ▪ Zone-II Released of <i>Kharif</i> Foarge variety Parbhani Mauli (CSV40F)
3	2018-19	Dr.V.M.Gholve	▪ Co-PI of (2018-2021) Genetic improvement of Sorghum for earliness and grain yield through induced mutation project BARC. Amount Rs. 24,79,700/-
4	2018-19	Dr.M.G.Patil	▪ Best Poster Presentation award in National Symposium organized by Indian Phytopathological Society during 23 <sup>rd</sup> - 24 <sup>th</sup> August 2018 at Goa
5	2019-20	Dr.V.M.Gholve	▪ Co-PI of Tribal Sub-plan Project, IIMR Hyderabad. Amount Rs. 6,97,000
6	2019-20	Dr.V.M.Gholve	▪ Contribution in : Released of <i>Rabi</i> sorghum variety Parbhani Supermoti (SPV2407)
7	2020-21	Dr.V.M.Gholve	▪ It is recommended to undertake spray of the bioagent <i>Trichoderma harzianum</i> liquid formulation @ 10ml per liter of water at the time of 80% flowering for effective grain mold disease management in <i>kharif</i> sorghum growing area. ▪ It is recommended to undertake the seed treatment of bioagent <i>Trichoderma harzianum</i> liquid formulation @ 10ml per kg of seed before sowing for effective charcoal rot disease management in <i>Rabi</i> sorghum growing area. ▪ It is recommended to undertake the biofertilizer seed treatment of liquid <i>Acetobacter</i> and <i>Azotobacter</i> @ 10ml each /kg seed before sowing along with application of N ,P and K each @ 40 kg/ha to increase grain and stover yield with 50 per cent saving of N in <i>Kharif</i> sorghum growing area under dry land conditions of Maharashtra.
8	2020-21	Dr.V.M.Gholve	▪ Received Best poster presentation award for paper “ <i>In vitro</i> efficacy of different bio-agents against <i>Colletotrichum orbiculare</i> (Berkely and Montagne) von Arx causing



			Anthracnose of cucumber ( <i>Cucumis sativus</i> L.)' in the "IPS National Symposium (West zone) held on 25-26 Feb., 2021 at Department of Plant pathology, College of Agriculture Akola.
9	2020-21	Dr.M.G.Patil	<ul style="list-style-type: none"> <li>Received Best poster presentation award in National Symposium on probing Beneficial Microorganism for next green revolution held on 25-26<sup>th</sup> Feb, 2021. Jointly Organized by INDIAN PHYTOPATHOLOGICAL SOCIETY (WESTZON) and Association of Plant Pathologist, Akola.</li> </ul>
10	2021-22	Dr.V.M.Gholve	<ul style="list-style-type: none"> <li>Received Best poster presentation award in Indian Phytopathological Society (West Zone) National Symposium on "Achieving Sustainability in Crop Production Through Alimentation and Plant Protection" during 17<sup>th</sup> – 18<sup>th</sup> November, 2021 at College of Agriculture, Latur.</li> </ul>
11	2021-22	Dr.V.M.Gholve	<ul style="list-style-type: none"> <li>Seed treatment with Cyantraniliprole 19.8% FS + Thiamethoxam 19.8% (6ml/Kg seed) followed by foliar application of Chlorantraniliprole 18.5% SC (3 ml/10 lit. water) or Spinetoram 11.7% SC (5ml/10lit. water) 30 days after emergence is recommended for management of fall army worm on <i>rabi</i> sorghum.</li> <li>For single cut <i>kharif</i> forage sorghum, the application RDF with foliar spray of urea @ 2% at 45 DAS is recommended.</li> <li><i>Kharif</i> single cut forage sorghum application of fertilizers 100:50:50 NPK kg/ha.</li> <li>Sowing of hurda sorghum in summer should be done 1st fortnight of Jan to get higher yield.</li> </ul>
12	2022-23	Dr.V.M.Gholve	<ul style="list-style-type: none"> <li>Received Best Poster Award for Research Paper "Eco-friendly management of dry root rot of Safflower" in the IPS Platinum Jubilee Conference held at University of Mysore, Mysuru, Karnataka, India during February 2-4, 2023.</li> </ul>
<b>Department of Metrology</b>			
1	2019	Dr.M.G.Jadhav	<ul style="list-style-type: none"> <li>Participated and presented a paper in International Symposium on Advances in Agrometeorology for managing climatic risks of farmers February, 2019 JNU, New Delhi, INDIA</li> </ul>
2	2020	Dr.M.G.Jadhav	<ul style="list-style-type: none"> <li>Attended Online training programme on 'Recent trends in Academic writing' organised by University library and department of extension education VNMKV, Parbhani during 20-24 May 2020</li> </ul>
3	2020	Dr.M.G.Jadhav	<ul style="list-style-type: none"> <li>Attended Online training programme on 'Applications of Remote Sensing and GIS in Digital Agriculture' organised by VNMKV, Parbhani during 04 - 08 June 2020.</li> </ul>
4	2021	Dr.M.G.Jadhav	<ul style="list-style-type: none"> <li>Participated and presented a paper in National Conference of Plant Physiology-2021 (NCPP-2021) Frontiers of Plant Physiology for Climate Smart Agriculture 09-11, December, 2021 at ICAR-NIASM, Baramati, Pune.</li> </ul>
5	2019	Dr.A.M.Khobragade	<ul style="list-style-type: none"> <li>Recent advances in Statistical modelling &amp; forecasting for agril.data analysis of 23.02.2019 ASRI, Pusa, Delhi.</li> </ul>
6	2020	Dr.A.M.Khobragade	<ul style="list-style-type: none"> <li>Workshop on Communication skill and personality development. Dated 2 Jan, 2020 at CAAST-CSAWM, COA,</li> </ul>



			Pune
7	2021	Dr.A.M. Khobragade	▪ Training on Climate smart Organic farming ,CAAST, MPKV, Rahuri w.e.f. Feb 15 to March 07, 2021
8	2022	Dr.A.M. Khobragade	▪ Workshop on Effective e-content development for education in agriculture dated 21-22 Nov,2022 (NAHEP) VNMKV, Parbhani
9	2022	Prof.G.N.Gote	▪ Workshop on Effective e-content development for education in agriculture dated 21-22 Nov,2022 .(NAHEP) VNMKV, Parbhani
10	2022	Prof.G.N.Gote	▪ Training on Recent advances in Agril. Meteorology, ICAR-CAFT in Agril. Met, Pune. W.e.f. 1 <sup>st</sup> Dec to 21 <sup>st</sup> Dec.2022
11	2022	Prof.G.N.Gote	▪ International workshop on advanced digital technologies in agricultural automation (ADTAA-2022) at NAHEP-CAAST , VNMKV, Parbhani w.e.f. 14-16 March,2022

**STUDENT**

The Government of Maharashtra has initiated different programmes like Ashwamedh, West Zone, Krida Mahostav for development of the students in sports, and inculcation of research aptitude. For participation in such state level programmes, the student's are selected at the college level by organizing inter-collegiate tournaments and the selected students participate at the State level.

**Yearwise information of students participated in inter collegiate tournaments in different activities during last five years**

**Year: 2018-19**

Sr. No.	Name of the Event	Achievement	Place
1	Kabaddi (Men)	Runner	DSW Ground, VNMKV, Parbhani
2	Basketball (Men)	Winner	MIT Food Tech. College, Aurangababd
3	Basketball (Women)	Winner	MIT Food Tech. College, Aurangababd
4	Table Tennis (Men)	Winner	M.G. College of Agril. Biotechnology, Pokharni, Nanded
5	Table Tennis (Women)	Runner	College Agricultural Biotechnology, Hatta
6	Volleyball (Men)	Winner	Vasantrao Naik Gramin College of Agriculture, Nehrunagar
7	Volleyball (Women)	Winner	DSW Ground, VNMKV, Parbhani

**Year: 2019-20**

Sr.No.	Name of the Event	Achievement	Place
1	Basketball (Men)	Winner	DSW Ground, VNMKV, Parbhani
2	Basketball (Women)	Winner	DSW Ground, VNMKV, Parbhani

3	Table Tennis (Men)	Winner	S.D.M.V.M. College of Agriculture Georai Tanda Paithan Road Aurangabad
4	Badminton (Men)	Winner	DSW Ground, VNMKV, Parbhani

**Year : 2020-21**

Sr.No.	Name of the Event	Achievement	Place
	No event		Pandemic Situation (COVID-19)

**Year : 2021-22**

Sr.No.	Name of the Event	Achievement	Place
	No event		Pandemic Situation (COVID-19)

**Year:2022-23**

Sr.No.	Name of the Event	Achievement	Place
1	Kabaddi (Women)	Runner	DSW Ground, VNMKV, Parbhani
2	Basketball (Men)	Winner	DSW Ground, VNMKV, Parbhani
3	Basketball (Women)	Winner	DSW Ground, VNMKV, Parbhani
4	Table Tennis (Men)	Winner	MGM Nanasaheb Kadam College of Agriculture, Aurangabad
5	Table Tennis (Women)	Runner	DSW Ground, VNMKV, Parbhani
6	Volleyball (Men)	Winner	College of Agriculture, Naigaon Bazaar, Tal. Naigaon
7	Volleyball (Women)	Winner	College of Agriculture, Naigaon Bazaar, Tal. Naigaon
8	Badminton (Women)	Winner	DSW Ground, VNMKV, Parbhani

**All India Inter Agriculture University Sports Meet (ICAR) during last five years.**

**Year – 2018-19**

**Place: Punjab Agricultural University (PAU), Ludhiana, Punjab**

**Date: 02.01.2019 to 05.01.2019**

Sr. No.	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
1	Volleyball (Women)	Chopade Vishakha A.	2016AGPB224	B.Sc.(Hons.)Agri.	Gold Medal
2	Athletics (Women)	Dalvi Dipali R.	2017AGPB162	B.Sc.(Hons.)Agri.	Participated

**Year – 2019-20****Place : Sri Venkateswara University, Tirupati, Andhra Pradesh****Date:01.03.2020 to 05.03.2020**

Sr. No	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
1	Kabaddi (Men)	Ghyar Santosh P.	2019A79M	M.Sc. (Agri.)	Silver Medal
2	Table Tennis (Men)	Kadam Kausthab R.	2019AGPB135	B.Sc.(Hons.) Agri.	Participated
3	Table Tennis (Women)	Muktawar Bhakti A.	2019AGPB239	B.Sc.(Hons.) Agri	Participated
4	Volleyball (Women)	Jagade Kanta B.	2016AGPB159	B.Sc.(Hons.) Agri	Participated
5	Athletics (Men)	Patil Prashant D.	2019A40M	M.Sc. (Agri.)	Participated

**Year – 2020-21**

Sr. No.	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
	No event	<b>Pandemic Situation (COVID-19)</b>			

**Year – 2021-22**

Sr. No.	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
	No event	<b>Pandemic Situation (COVID-19)</b>			

**Year – 2022-23****Place: Chaudhary Charan Singh Haryana Agricultural University, Hisar****Date:20.2.2023 to 24.02.2023**

Sr. No.	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
1	Volleyball (Women)	Lokhande Pratiksha H.	2020AGPB248	B.Sc.(Hons.) Agri	Gold Medal
2		Nakhate Rutuja V.	2021AGPB262	B.Sc.(Hons.) Agri	Gold Medal
3		Wadsakar Isha S.	2020AGPB249	B.Sc.(Hons.) Agri	Gold Medal
4		Raut Dimpal V.	2021AGPB263	B.Sc.(Hons.) Agri	Gold Medal
5	Volleyball (Men)	Nanepanga Vinay	2021A101M	M.Sc.(Agri)	Participated
6	Table Tennis (Men)	Somalkar Yash A.	2020AGPB097	B.Sc.(Hons.) Agri	Participated
7	Table Tennis (Women)	Muktawar Bhakti A.	2019AGPB239	B.Sc.(Hons.) Agri	Participated

**Ashwamedh Krida Mahotsav****Participation of students of this college in year 2018-19****Place: Punyashlok Ahilyadevi Holkar University, Solapur, Maharashtra.**

Sr. No.	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
1	Kabaddi (Men)	Ghyar Santosh P.	2019A79M	M.Sc. (Agri.)	Participated
2	Kabaddi (Women)	Gadve Rutuja S.	2018A16M	M.Sc. (Agri.)	Participated
3	Volleyball (Women)	Nikam Rakshita j.	2019HT06M	M.Sc. (Hort.)	Participated
4		Bhokse Devika V.	2019A100M	M.Sc. (Agri.)	Participated
5		Jagade Kanta B.	2016AGPB159	B.Sc. (Hons.) Agri.	Participated
6		Javalkar Bhakti	--	B.Sc. (Hons.) Agri.	Participated
7	Basketball (Men)	Navle Mayur D.	2018A16P	Ph.D. (Agri.)	Participated
8		Shelke Tushar T.	2018AGPB103	B.Sc. (Hons.) Agri.	Participated
9		Pillewad Achyut B.	2016AGPB77	B.Sc. (Hons.) Agri.	Participated
10		Bhagat Abhimanyu D.	2018AGPB11	B.Sc. (Hons.) Agri.	Participated

**Participation of students of this college in year 2019-20****Place: University of Mumbai, Mumbai**

Sr. No.	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
1	Volleyball (Women)	Chopade Vishakha A.	2020A50M	M.Sc. (Agri.)	Participated

**Participation of students of this college in year 2020-21****Place:**

Sr. No.	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
	No event	Pandemic Situation (COVID-19)			

**Participation of students of this college in year 2021-22****Place:**

Sr. No.	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
	No event	Pandemic Situation (COVID-19)			

**Participation of students of this college in year 2022-23****Place:Dr. Babasaheb Ambedkar Marathwada University, Aurangbad**

<b>Sr. No</b>	<b>Name of the Event</b>	<b>Name of the Students</b>	<b>Reg. No.</b>	<b>Course</b>	<b>Achievement</b>
1	Kabaddi (Men)	Deshmukh Sidhant D.	2020HT15M	M.Sc. (Hort.)	Participated
2	Kabaddi (Women)	Kendre Akshda S.	2021AGPB215	B.Sc.(Hons.) Agri	Participated
3		Rathod Rakhi S.	2020AGPB233	B.Sc.(Hons.) Agri	Participated
4		Lokhande Arpita E.	2019AGPB243	B.Sc.(Hons.) Agri	Participated
5	Volleyball (Men)	Nanepanga Vinay	2021A101M	M.Sc.(Agri)	Participated
6		Londhe Omkar D.	2020A112M	M.Sc. (Agri)	Participated
7		Choudhary Rajendra	2021A11M	M.Sc. (Agri)	Participated
8		Somalkar Yash A.	2020AGPB097	B.Sc.(Hons.)Agri.	Participated
9	Volleyball (Women)	Chopade Vishakha A.	2020A50M	M.Sc. (Agri.)	Participated
10		Lokhande Pratiksha H.	2020AGPB248	B.Sc.(Hons.) Agri	Participated
11		Nakhate Rutuja V.	2021AGPB262	B.Sc.(Hons.) Agri	Participated
12		Wadsakar Isha S.	2020AGPB249	B.Sc.(Hons.) Agri	Participated
13		Raut Dimpal V.	2021AGPB263	B.Sc.(Hons.) Agri	Participated
14		Kadam Neha B.	2019AGPB185	B.Sc.(Hons.) Agri	Participated
15	Basketball (Men)	Ambrish S.	2020HT01M	M.Sc. (Hort.)	Participated
16		Ramprem Meena	2020A68M	M.Sc. (Agri.)	Participated
17		Kulkarni Kausthub	-	B.Sc.(Hons.) Agri	Participated
18		Thakur Dhanjay	-	B.Sc.(Hons.) Agri	Participated
19		Gawande Abhishek	-	B.Sc.(Hons.) Agri	Participated
20	Basketball (Women)	Pohekar Swati H.	2020A36M	M.Sc.(Agri.)	Participated
21		Rathod Manisha R.	2020A44M	M.Sc. (Agri.)	Participated
22		Dapurkar Nikita D.	2020HT03M	M.Sc. (Hort.)	Participated
23		Shelke Trupti T.	2019AGPB224	B.Sc.(Hons.) Agri	Participated
24		Gawali Prajka R.	2019AGPB176	B.Sc.(Hons.) Agri	Participated



**Information of students participated in West Zone Tournaments during 2022-23****Place: Sant Gadgebaba University, Amravati**

Sr. No	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
1	Volleyball (Women)	Chopade Vishakha A.	2020A50M	M.Sc. (Agri.)	Participated
2		Lokhande Pratiksha H.	2020AGPB248	B.Sc.(Hons.) Agri	Participated
3		Nakhate Rutuja V.	2021AGPB262	B.Sc.(Hons.) Agri	Participated
4		Wadsakar Isha S.	2020AGPB249	B.Sc.(Hons.) Agri	Participated
5		Raut Dimpal V.	2021AGPB263	B.Sc.(Hons.) Agri	Participated
6		Kadam Neha B.	2019AGPB185	B.Sc.(Hons.) Agri	Participated

**Year 2022-23****Place: Swami Ramanand Teerth Marathwada University, Nanded**

Sr. No.	Name of the Event	Name of the Students	Reg. No.	Course	Achievement
1	Badminton (Women)	Choudhari Suvarna D.	2020A09P	Ph.D. (Agri.)	Participated
2		More Nikita B.	2022A84M	M.Sc. (Agri.)	Participated
3		Akhula Tukdekhan	-	B.Sc.(Hons.) Agri	Participated

**6.5.7.4 Employability:**

Each year 220 students enrol in graduate programs, 134 in postgraduate programs and 33 in PhD programs. The course curriculum of the graduate program has practical with sound scientific knowledge. It is being updated regularly. The special feature of the agriculture graduate course is rural agriculture work experience and experiential learning programme in which students are exposed to farm level problem and to acquire the skills. Last five years 932 students obtained rural agriculture work experience and acquire enterpruneship skills for self employment.722M.Sc. (Agri.) and 113 Ph.D.(Agri.) Students were trained in higher agricultural education and specially in research to cater the needs of government and private sector.

Placement and counselling cell of this college is fully energised and working hard to place students at better positions through mock test,motivational lecture series and creating awareness inNational level exam.The students were placed in various organisations like

Government, Private and seed companies. Multinational companies are approaching to select their workforce from this institute.

Placement cell is formulated in this college, which constitutes 11 faculty members from various disciplines including Chairman and Member Secretary. From its inception, cell is conducting various activities for carrier development of the students. During last five years the cell has organized various activities for the students which helped to improve the skills and personal attributes of students of the College. The list of activities undertaken by this cell is mentioned in 6.5.4.9.

**Placement and Counselling Cell Committee:**

<b>Sr. No.</b>	<b>Name</b>	<b>Chairman/Member</b>
1	Dr. P.R. Zanwar, Assoc. Prof of Agril. Entomology	Chairman
2	Dr. R.G. Bhagyawant, Asso. Prof. of Agril. Engineering	Member
3	Dr. A.G. Badgujar, Asstt. Prof. of Agril. Entomology	Member
4	Dr. S.S. Phulari, Asstt. Prof. I/C Central Computer Cell	Member
5	Dr. C.V. Ambadkar, Asstt. Prof. of Plant Pathology	Member
6	Prof. V.B.Jadhav, Asstt. Prof. of Mathematics	Member
7	Dr. P.S. Kapse, Assoc. Prof. of Extension Education	Member
8	Dr. I.A. Mirza Asstt. Prof. of Agronomy	Member
9	Dr. S. D. Kadam , University Librarian	Member
10	Dr. S.L. Waikar, Asstt. Prof. of Soil Science	Member
11	Dr. R. V. Chavan, Associate Prof. Agril. Economics	Member Secretary

I Dr. Syed Ismail, Associate Dean & Principal, College of Agriculture, VNMKV, Parbhani hereby certify that the information contained in the Section 6.4 and Section 6.5.1 to 6.5.7.4 are furnished as per the records available in the Department.



**(Syed Ismail)**  
**Associate Dean & Principal**

## Appendix-I Students Feedback

**कृषि महाविद्यालयांतर्गत मुलींच्या वसतिगृहाबाबत विद्यार्थीनींच्या प्रतिक्रिया**

अ.क्र.	विवरण	
	विद्यार्थीनींचे नाव	पुष्प प्रशांत शिंदे
	सत्र	पाचवे
	नोंदणी क्र.	2021AGPB248
	वसतिगृहाचे नाव	उत्तरी मुलींचे वसतीगृह
	पदवी/पदव्युत्तर/आचार्य पदवी, B. Sc.(Agri.) / M. Sc.(Agri.) / Ph.D. / M.Tech.	
१	भोजनालयातील जेवण दर्जेदार आहे का?	होय/नाही
२	जलशुद्धीकरण यंत्र (आर.ओ.) चे शुद्ध पाणी उपलब्ध आहे का?	होय/नाही
३	अभ्यासांका कक्ष उपलब्ध आहे का?	होय/नाही
४	मनोरंजन कक्ष उपलब्ध आहे का?	होय/नाही
५	स्नानाकरिता गरम पाण्यासाठी सोलार संच उपलब्ध आहे का?	होय/नाही
६	वेन्डिंग मॉशन व बॅनिंग वेन्डिंग मॉशन उपलब्ध आहे का?	होय/नाही
७	इंटरनेट (WIFI) सुविधा उपलब्ध आहे का?	होय/नाही
८	घोशिंग मॉशन उपलब्ध आहे का?	होय/नाही
९	ऑफधी ठेवण्यासाठी फ्रिज उपलब्ध आहे का?	होय/नाही
१०	व्यायाम शाळा उपलब्ध आहे का?	होय/नाही
११	इनव्हर्टर उपलब्ध आहे का?	होय/नाही
१२	रुग्णवाहिका उपलब्ध आहे का?	होय/नाही
१३	वसतिगृह परिसरात सौ.सौ.टॉ.व्ही. कॅमेरे उपलब्ध आहेत काय?	होय/नाही
१४	वसतिगृहातील एकंदरीत वातावरण अभ्यासासाठी पोषक आहे काय?	होय/नाही
१५	वसतिगृहाची स्वच्छता नियमित करण्यात येते काय?	होय/नाही
१६	वसतिगृहातील कर्मचारी सहकार्य करतात का?	होय/नाही
१७	वसतिगृहामध्ये सुरक्षेबाबत काळजी घेतली जाते काय?	होय/नाही
१८	वसतिगृहामध्ये सर्वांना समान वागणूक मिळते काय?	होय/नाही
१९	वसतिगृहामध्ये सर्व नियम/अटींचे पालन होते काय?	होय/नाही
२०	वसतिगृहासंबंधीत समस्या उद्भवल्यास तात्काळ सोडविल्या जातात का?	होय/नाही
२१	वेद्यार्थी सुविधेसाठी प्रशासनाकडून तात्काळ मदत केली जाते का?	होय/नाही

(स्वाक्षरी)

कृषि महाविद्यालयांतर्गत मुलींच्या वसतिगृहाबाबत विद्यार्थीनीच्या प्रतिक्रिया

अ क्र	विवरण	
	विद्यार्थीनीचे नाव	श्रद्धा इला राऊत
	सत्र	सातव
	नोंदणी क्र.	2020 AGPR 235
	वसतिगृहाचे नाव	उत्तरा मुलींचे वसतिगृह
	पदवी/पदव्युत्तर/आचार्य पदवी, B. Sc.(Agri.) / M. Sc.(Agri.) / Ph D. / M Tech.	
१	भोजनालयातील जेवण दर्जेदार आहे का?	होय/नाही
२	जलशुद्धीकरण यंत्र (आर.ओ) चे शुध्द पाणी उपलब्ध आहे का?	होय/नाही
३	अभ्यासाका कक्ष उपलब्ध आहे का?	होय/नाही
४	मनोरंजन कक्ष उपलब्ध आहे का?	होय/नाही
५	स्नानाकरिता गरम पाण्यासाठी सोलार संच उपलब्ध आहे का?	होय/नाही
६	वेन्डिंग मशिन व बर्निंग वेन्डिंग मशिन उपलब्ध आहे का?	होय/नाही
७	इंटरनेट (WI-FI) सुविधा उपलब्ध आहे का?	होय/नाही
८	वॉशिंग मशिन उपलब्ध आहे का?	होय/नाही
९	औषधी ठेवण्यासाठी फ्रिज उपलब्ध आहे का?	होय/नाही
१०	व्यायाम शाळा उपलब्ध आहे का?	होय/नाही
११	इन्व्हेंटर उपलब्ध आहे का?	होय/नाही
१२	रुग्णवाहिका उपलब्ध आहे का?	होय/नाही
१३	वसतिगृह परिसरात सी.सी.टी.वी. कॅमेरे उपलब्ध आहेत काय?	होय/नाही
१४	वसतिगृहातील एकंदरीत वातावरण अभ्यासासाठी पाषक आहे काय?	होय/नाही
१५	वसतिगृहाची स्वच्छता नियमित करण्यात येते काय?	होय/नाही
१६	वसतिगृहातील कर्मचारी सहकार्य करतात का?	होय/नाही
१७	वसतिगृहामध्ये सुरक्षेबाबत काळजी घेतली जाते काय?	होय/नाही
१८	वसतिगृहामध्ये सर्वांना समान वागणूक मिळते काय?	होय/नाही
१९	वसतिगृहामध्ये सर्व नियम/अटीचे पालन होते काय?	होय/नाही
२०	वसतिगृहासंबंधीत समस्या उद्भवल्यास तात्काळ सोडविल्या जातात का?	होय/नाही
२१	वेद्यार्थी सुविधेसाठी प्रशासनाकडून तात्काळ मदत केली जाते का?	होय/नाही

(स्वाक्षरी)

दि. 28.8.2023

कृषि महाविद्यालयांतर्गत मुलींच्या वसतिगृहाबाबत विद्यार्थीनांच्या प्रतिक्रिया

क्र.सं.	विवरण	
विद्यार्थीनांचे नाव	Pranjali Hanumanrao Patil	
सत्र	II <sup>nd</sup> Sem	
नोंदणी क्र.	A 2022A 169M1	
वसतिगृहाचे नाव	भाविजीबाई फुले वसतिगृह पबभणी	
पदवी/पदव्युत्तर/आचार्य पदवी, B. Sc (Agn.) / M. Sc (Agn.) / Ph.D. / M.Tech.		
1.	भोजनालयातील जेवण दर्जेदार आहे का?	होय/नाही ✓
2.	जलशुद्धीकरण यंत्र (आर.ओ) चे शुद्ध पाणी उपलब्ध आहे का?	होय/नाही
3.	अभ्यासोका कक्ष उपलब्ध आहे का?	होय/नाही
4.	मनोरंजन कक्ष उपलब्ध आहे का?	होय/नाही
5.	स्नानाकरिता गरम पाण्यासाठी सोलार संच उपलब्ध आहे का?	होय/नाही
6.	वेन्डिंग मशिन व बनिंग वेन्डिंग मशिन उपलब्ध आहे का?	होय/नाही
7.	इंटरनेट (Wi-Fi) सुविधा उपलब्ध आहे का?	होय/नाही
8.	वाशिंग मशिन उपलब्ध आहे का?	होय/नाही
9.	आषधो ठेवण्यासाठी फ्रिज उपलब्ध आहे का?	होय/नाही
10.	व्यायाम शाळा उपलब्ध आहे का?	होय/नाही
11.	इनव्हर्टर उपलब्ध आहे का?	होय/नाही
12.	रुग्णवाहिका उपलब्ध आहे का?	होय/नाही
13.	वसतिगृह परिसरात सौ.सौ.टी.व्ही. कॅमेरे उपलब्ध आहेत काय?	होय/नाही
14.	वसतिगृहातील एकंदरीत वातावरण अभ्यासासाठी पोषक आहे काय?	होय/नाही
15.	वसतिगृहाची स्वच्छता नियमित करण्यात येते काय?	होय/नाही
16.	वसतिगृहातील कर्मचारी सहकार्य करतात का?	होय/नाही
17.	वसतिगृहामध्ये सुरक्षेबाबत काळजी घेतली जाते काय?	होय/नाही
18.	वसतिगृहामध्ये सर्वांना समान वागणूक मिळते काय?	होय/नाही
19.	वसतिगृहामध्ये सर्व नियम/अटीचे पालन होते काय?	होय/नाही
20.	वसतिगृहासंबंधीत समस्या उद्भवल्यास तात्काळ सोडविल्या जातात का?	होय/नाही
21.	वेद्यकिय सुविधेसाठी प्रशासनाकडून तात्काळ मदत केली जाते का?	होय/नाही

Pranjali  
(स्वाक्षरी)  
P.M. Patil.



राजमाता जिजाऊ वसतिगृह - 75 पैली - 2

**कृषि महाविद्यालयांतर्गत मुलींच्या वसतिगृहाबाबत विद्यार्थीनींच्या प्रतिक्रिया**

अ.क्र.	विवरण	
	विद्यार्थीनींचे नाव	कु. धिवानी सुर्वकांत देशमुख
	सत्र	IV <sup>th</sup>
	नोंदणी क्र.	2021A/16M
	वसतिगृहाचे नाव	राजमाता जिजाऊ मुलींचे वसतिगृह
	पदवी/पदव्युत्तर/आचार्य पदवी, B. Sc.(Agri.) / M. Sc.(Agri.) / Ph.D. / M.Tech.	
१	भोजनालयातील जेवण दर्जेदार आहे का?	✓ होय/नाही
२	जलशुद्धीकरण यंत्र (आर.ओ) चे शुद्ध पाणी उपलब्ध आहे का?	✓ होय/नाही
३	अभ्यासासाठी कक्ष उपलब्ध आहे का?	✓ होय/नाही
४	मनोरंजन कक्ष उपलब्ध आहे का?	होय/नाही
५	स्नानाकारिता गरम पाण्यासाठी सोलार संच उपलब्ध आहे का?	होय/नाही
६	वेन्डिंग मशीन व बर्निंग वेन्डिंग मशीन उपलब्ध आहे का?	✓ होय/नाही
७	इंटरनेट (WIFI) सुविधा उपलब्ध आहे का?	✓ होय/नाही
८	वॉशिंग मशीन उपलब्ध आहे का?	✓ होय/नाही
९	आपघाट ठेवण्यासाठी फ्रिज उपलब्ध आहे का?	✓ होय/नाही
१०	व्यायाम शाळा उपलब्ध आहे का?	✓ होय/नाही
११	इन्व्हेंटर उपलब्ध आहे का?	✓ होय/नाही
१२	रुग्णवाहिका उपलब्ध आहे का?	होय/नाही
१३	वसतिगृह परिसरात सो.सी.टी.व्ही. कॅमेरे उपलब्ध आहेत काय?	होय/नाही
१४	वसतिगृहातील एकंदरीत वातावरण अभ्यासासाठी पोषक आहे काय?	✓ होय/नाही
१५	वसतिगृहाची स्वच्छता नियमित करण्यात येते काय?	✓ होय/नाही
१६	वसतिगृहातील कर्मचारी सहकार्य करतात का?	✓ होय/नाही
१७	वसतिगृहामध्ये सुरक्षेबाबत काळजी घेतली जाते काय?	✓ होय/नाही
१८	वसतिगृहामध्ये सर्वांना समान वागणुक मिळते काय?	✓ होय/नाही
१९	वसतिगृहामध्ये सर्व नियम/अटीचे पालन होते काय?	✓ होय/नाही
२०	वसतिगृहासंबंधीत समस्या उद्भवल्यास तात्काळ सोडविल्या जातात का?	✓ होय/नाही
२१	वेद्यार्थी सुविधेसाठी प्रशासनाकडून तात्काळ मदत केली जाते का?	होय/नाही

धिवानी  
(स्वाक्षरी)

### STUDENT'S FEEDBACK ON BOYS HOSTEL UNDER AGRICULTURE COLLEGE


Sr. No.	DESCRIPTION	
	Name of Student	Amlanjyoti SAR Room no: 39
	Semester	<del>2021/22</del> 1 <sup>st</sup> W
	Reg. No.	2021AT1M
	Name of Hostel	Nagnath Boys Hostel
	Degree/ Post Graduate, B. Sc.(Agri.), (Horti), (Community Science)/ M. Sc.(Agri.) / Ph. D	
1	Is the Mess food of good quality ?	Yes / No
2	Does the RO water available ?	Yes / No
3	Is there study hall available in the hostel ?	Yes / No
4	Is there a recreation hall available ?	Yes / No
5	Is there solar water heater in the hostel ?	Yes / No
6	Is there Internet (Wi-Fi) facility available ?	Yes / No
7	Does the Gymnasium available ?	Yes / No
8	Is there inverter facility available ?	Yes / No
9	Is there an ambulance available ?	Yes / No
10	Are there CCTV cameras available in the hostel premises ?	Yes / No
11	Does the overall atmosphere in the hostel conducive to study ?	Yes / No
12	Is there regular cleanliness maintained in the hostel ?	Yes / No
13	Are the hostel staff cooperative ?	Yes / No
14	Does the security of the hostel taken care of ?	Yes / No
15	Does everyone get equal treatment in the hostel ?	Yes / No
16	Does all the rules/conditions followed in the hostel ?	Yes / No
17	Are hostel related issues resolved promptly ?	Yes / No
18	Is there immediate assistance from the administration for the medical facility ?	Yes / No

  
(Signature)

Room no:- 12

### STUDENT'S FEEDBACK ON BOYS HOSTEL UNDER AGRICULTURE COLLEGE

Sr. No.	DESCRIPTION	
	Name of Student	<u>Shridhar Nivaz Banne</u>
	Semester	<u>VI</u>
	Reg. No.	<u>2020A/20P</u>
	Name of Hostel	<u>Nagnath Boys Hostel</u>
	Degree/ Post Graduate, B. Sc.(Agri.), (Horti), (Community Science)/ M. Sc.(Agri.) / Ph. D.	
1	Is the Mess food of good quality ?	Yes / No
2	Does the RO water available ?	Yes / No
3	Is there study hall available in the hostel ?	Yes / No
4	Is there a recreation hall available ?	Yes / No
5	Is there solar water heater in the hostel ?	Yes / No
6	Is there Internet (Wi-Fi) facility available ?	Yes / No
7	Does the Gymnasium available ?	Yes / No
8	Is there inverter facility available ?	Yes / No
9	Is there an ambulance available ?	Yes / No
10	Are there CCTV cameras available in the hostel premises ?	Yes / No
11	Does the overall atmosphere in the hostel conducive to study ?	Yes / No
12	Is there regular cleanliness maintained in the hostel ?	Yes / No
13	Are the hostel staff cooperative ?	Yes / No
14	Does the security of the hostel taken care of ?	Yes / No
15	Does everyone get equal treatment in the hostel ?	Yes / No
16	Does all the rules/conditions followed in the hostel ?	Yes / No
17	Are hostel related issues resolved promptly ?	Yes / No
18	Is there immediate assistance from the administration for the medical facility ?	Yes / No

  
 (Signature)

Room NO:- 35

### STUDENT'S FEEDBACK ON BOYS HOSTEL UNDER AGRICULTURE COLLEGE

Sr. No.	DESCRIPTION	
	Name of Student	Kumbhar Amol Subhash
	Semester	II
	Reg. No.	2022A/26P
	Name of Hostel	Nagnath Boys Hostel
	Degree/ Post Graduate, B. Sc.(Agri.), (Horti), (Community Science)/ M. Sc.(Agri.) / Ph. D	
1	Is the Mess food of good quality ?	✓ Yes / No
2	Does the RO water available ?	Yes / No ✓
3	Is there study hall available in the hostel ?	Yes / No ✓
4	Is there a recreation hall available ?	✓ Yes / No
5	Is there solar water heater in the hostel ?	Yes / No ✓
6	Is there Internet (Wi-Fi) facility available ?	Yes / No ✓
7	Does the Gymnasium available ?	Yes / No ✓
8	Is there inverter facility available ?	Yes / No ✓
9	Is there an ambulance available ?	Yes / No ✓
10	Are there CCTV cameras available in the hostel premises ?	Yes / No ✓
11	Does the overall atmosphere in the hostel conducive to study ?	Yes / No ✓
12	Is there regular cleanliness maintained in the hostel ?	✓ Yes / No
13	Are the hostel staff cooperative ?	✓ Yes / No
14	Does the security of the hostel taken care of ?	✓ Yes / No
15	Does everyone get equal treatment in the hostel ?	Yes / No ✓
16	Does all the rules/conditions followed in the hostel ?	✓ Yes / No
17	Are hostel related issues resolved promptly ?	✓ Yes / No
18	Is there immediate assistance from the administration for the medical facility ?	✓ Yes / No

  
 (Signature)