


Faculty Profile

Personal Details

Name	NARKHEDE WASUDEO NIVRUTTI	
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Academic Qualifications

Degree	Specialization	University	Year of Passing
Ph.D. (Agronomy)	Soil and water management ,Integrated farming system, Dryland farming	Dr. P.D.K.V, Akola	1993
M. Sc. (Agri.) (Agronomy)	Soil and water management, crop and cropping system ,weed management	Dr. P.D.K.V, Akola	1987
B. Sc. (Agriculture)	Agriculture	Dr. P.D.K.V, Akola	1985

Professional Experience

Stream	Years	Stream	Years
Teaching	6	Research	28
Extension	32	Administration	25

Area of Research/Interest

Integrated farming systems, Dryland farming ,Cotton production technology ,Crop diversification and Conservation Agriculture

Research Guidance

Degree	No. of Student & Guided
M.Sc./M.Tech	16
Ph. D.	06

Research Accomplishments (Recent Ten Most Important Publications)

Sr.No	Title	Journal	ISSN/ISBN	NAAS Rating
01	“Effect of Organic and Inorganic Nutrients Sources and their Integrated Nutrients management, productivity economic efficiency, available N,P,K and Microbial population in Soybean (Glycine max- onion (Allium cepa) cropping sequence	<i>Indian Journal of Agronomy</i> 62 (2) pp no. 147-154 June 2017.	0537-197X	5.21

02	Interrelationship of biomass yield ,carbon input ,aggregation ,carbon pool and its sequestration in vertisol under long term sorghum-wheat cropping system in semiarid tropics	Soil and Tillage Research 184 (2018) 164-175	0167-1987	12.50
03	Boron availability in soils and its nutrition of crops under long term fertility experiments in India	Geoderma 2019	351:116-129	12.10
04	Effect of organic weed management practices on weed control and yield of soybean-gram cropping system under irrigated condition	Indian Journal of Weed Science,52(3): 245–249 ,2020	0253-8040	5.42
05	Effect of land configuration, growth regulators and integrated nutrient management on yield and economics of Pigeonpea.	Journal of Crop and Weed,2020 ,16(2): 227-232	0974-6315	5.27
06	A system model describing the impact of organic resource use on farming households in low to middle income countries	Agricultural Systems, 184 (2020) :1-35	0308-521X	12.60
07	Evaluation of Organic weed management practices on growth, yield and weed efficiency in Soybean-chickpea sequence under irrigated condition	Legume Research- An International 2021, 44 (8): 921-928 2021	0250-5371	6.80
08	Production Potential of Pigeon Pea Based Intercropping Systems under Various Land Configurations in Marathwada Region of Maharashtra	Legume Research- An International Journal, Volume 44 Issue 8: 947-951 (August 2021)	0250-5371	6.80
09	Overview of Dryland Agriculture Research and Achievements in Central Maharashtra Zone of Maharashtra.	Indian Journal of Dryland Agricultural Research and Development, 2022, Vol. 37 (2) pp:155-160.	ISSN-0971--2062	3.66
10	Effect of Different Land Configuration, Superabsorbent and Nutrient anagement on Yield and Economics of Soybean (Glycine max L.) -Safflower (Carthamus tinctorius) Cropping System	Legume research, 2022 45(12) 1540-1546	0250-5371	6.80
11	Morphophenological Characters and Productivity of Pigeon Pea [Cajanus cajan (L.) Millsp.] as Influenced by Crop Geometry and Plant Growth Regulators	LEGUME RESEARCH – 47 (7) 883-887 2022	0250-5371	6.80
12	Production Potential of Pigeon Pea [Cajanus cajan (L.) Millsp.] as Influenced by Crop Geometry and Plant	LEGUME RESEARCH – 47 (6) 727-734 2022	0250-5371	6.80

	Growth Regulators			
13	Assessing the Impact of Combining Cotton Residue, Tillage and Nutrient Management on Rainfed Bt Cotton Growth in Marathwada Region of Maharashtra, India	International Journal of Plant & Soil Science Volume 35, Issue 20, Page 410-420,; Article no.IJPSS.106421 2023	2320-7035	5.07

Credentials:

Particulars	Numbers	Particulars	Numbers
Research Articles	72	Popular Articles	97
Books / Booklets	05	Book Chapters	8
Research/Technology Recommendations	26	Varieties Developed	--
Patents	--	Abstracts Published	74
Technical Publication	5		

Significant Achievements (Top Five)

Patent/IP/Technologies/ Varieties/Machineries Developed / Methodologies/ Recommendations	Year
<p>1. For organic cultivation of Soybean – Onion cropping sequence with recommended nutrient doses (30:60:30 NPK kg/ha to Soybean and 100:50:50 NPK Kg/ha to Onion) through organic sources, the use of 1/3 recommended dose of N each of through FYM, Neem cake and Vermi compost along with seed treatment of Brady <i>Rhizobium</i> + phosphate solubilizing bacteria (PSB) to Soybean, <i>Azotobactor</i> + phosphate solubilizing bacteria (PSB) to onion is recommended for getting highest sustainable yield ,maintaining the soil fertility and highest net monetary return under the vertisol of Marathwada region.</p> <p>In inorganic farming in soybean – onion cropping sequence recommended nutrient doses i.e. 30:60:30 NPK Kg/ha to Soybean and 100:50:50 NPK Kg/ha to Onion and with micro nutrient Zinc sulphate 10 kg/ha and sulphur 25 kg/ha is recommended for higher production and net monetary returns. Accepted and recommended in 41 Joint Agresco meeting held at VNMKV, Parbhani May 2013</p>	2013
<p>2. In Kharif season, Maize + Soyabean, Maize + Green gram planted 45/75cm (2.2) and Maize + Soyabean at 60 cm (1.1) under inter cropping system to obtain haigher yield, ne profit are recommenede under Dry land situation in Marathwada region. Accepted and recommended in 41 Joint Agresco meeting held at VNMKV, Parbhani May 2013</p>	2013

<p>3. In integrated farming system, farmer having 1.0 ha irrigated area is recommended to adopt the integrated farming system model developed at, V.N.M.K.V., Parbhani for getting sustainable income with consistent employment generation throughout the year. The model consists of cropping systems- 0.3 ha, Pulses and vegetable- 0.16 ha, fodder grasses 0.15 ha. Horticulture 0.20 ha, spices -0.1 ha, dairy, poultry and vermicompost unit- 0.05 ha and boundary plantation- 0.04 ha with drumstick and anjan. Accepted and recommended in 42 Joint Agresco meeting held at Dr. BSKKV, Dapoli. 2014</p>	<p>2014</p>
<p>4. Maize + Soybean (Bed), Sesbania (Furrow) - Chick pea (Bed) Wheat(Furrow) – Cowpea (Veg.) (Bed) + Okra (Furrow) crop sequen planting on broad bed furrow at 1.5 m for increasing the productivity profitability, land use efficiency and maintenance of soil fertility recommended for Marathwada region.Accepted and recommended in 45 J Agresco meeting held at VNMKV,parbhani 2017</p>	<p>2017</p>
<p>5 In order to obtain higher soybean equivalent yield, gross monetary returns, net monetary returns, to adopt cluster bean – carrot – coriander cropping system underirrigated condition of Marathwada region Accepted and recommended in 50 Joint Agresco meeting held at Dr.BSKKV,Rahuri</p>	<p>2022</p>
<p>6.For obtaining higher productivity, sustainability, employment Generation from1.00 ha. irrigated integrated farming system model comprising of various enterprises i.e. cropping system (0.46 ha), horticulture (0.20 ha.), spices (0.10 ha), boundary plantation (0.04 ha), dairy, goatary and vermicompost (0.05 ha) found remunerative for the small and marginal farmers of Marathwada region. The integrated farming system model include following Enterprises</p>	<p>2023</p>
<p>Component</p>	
<p>Cropping System</p>	<p>Area (ha)</p>
<p>Soybean - Rabi Sorghum</p>	<p>0.10</p>
<p>Bt. Cotton</p>	<p>0.10</p>
<p>Maize – Chickpea</p>	<p>0.10</p>
<p>Green gram – Onion</p>	<p>0.16</p>
<p>Lucerne</p>	<p>0.075</p>
<p>Hybrid Napier – (Elephant grass)</p>	<p>0.075</p>
<p>Horticulture</p>	

Kagzi lime	0.20		
Spices: Turmeric	0.10		
Boundary plant	0.04		
Drum stick – Moringa oleifera			
Anjan - Hardwickia binnata			
Karonda – Carissa carandas			
Dairy	0.05		
Two Cow			
Goatary			
Goat : (10F+1M)			
Vermicomposting Unit			
Total	1.0		
<p>7 Rainfed Integrated Farming System Model of 1.0 ha comprising of cropping system (0.60 ha), fodder crops (0.12 ha), fruit crops (0.16 ha), goatary (7+1) and poultry (100 birds) is recommended for getting higher economics return to small and marginal farmers of Marathwada region .</p> <p>Rainfed Integrated Farming System model include following components</p>			2023
Components	Area (ha)		
Crops and cropping system			
Soybean – Rabi Sorghum	0.15		
Soybean – Chickpea	0.15		
Soybean +Pigeonpea	0.15		
Cotton + Soybean	0.15		
Fodder			
Marvel/ Stylo and Dashrath	0.12		
Rainfed fruit crops			
Mango	0.08		
Custard apple	0.08		
Livestock units			
Goat keeping (7+ 1)	0.05		

Deshi poultry (120 birds)			
Farm pond	0.078		
Total	1.0 ha		
Externally funded project :Implemented			
1. Implemented Maharashtra Composite Irrigation Project (M.C.I.P.) on Right Minor –12 of Nimgaon Branch Canal, At- Ardhapur, Dist. Nanded		January 1993- December 1995	

Awards/Recognitions (Top Five)

Sr.No	Name of the Award /medal	Name of the awarding organization	Year of award	Significant contributions
1	Dr.Punjabrao Deshmukh Silver Medal	Dr. Punjabrao Deshmukh Krishi vidyapeeth ,Akola	1992	For securing highest C.G.P.A. in Agronomy subject at M.Sc. (Agriculture) Agronomy examination
2	Late Shri Narhar Pant Uttarwar Silver Medal	Dr. Punjabrao Deshmukh Krishi vidyapeeth ,Akola	1992	for securing highest C.G.P.A. in M.Sc. (Agriculture) Agronomy examination.
3	Nagpur Agriculture College Diamond Jubilee Commemoration Medal	Dr. Punjabrao Deshmukh Krishi vidyapeeth ,Akola	1992	for securing highest C.G.P.A. in IVth semester in Agronomy subject at M.Sc. (Agri) examination
4.	Rajiv Gandhi award	International Business Council, New Delhi	2014.	Rajiv Gandhi award for education excellence
5	National Agro care Award for Research and Development	Agrocare group of companies Nasik,13 Agro care idol award	2021	Research work for integrated Farming system and Dryland Agriculture and INM