


Faculty Profile

Personal Details

Name	Dr. Madan Shridharrao Pendke	
Designation	Professor (CAS) (Agricultural Engineering) Soil and Water Conservation Engineering	
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Academic Qualifications

Degree	Specialization	University	Year of Passing
B. Tech	(Agril. Engineering)	Panjabrao Krishi Vidyapeeth, Akola (M.S.)	1988
M.E (Ag. Engg)	Soil & Water Conservation Engg.)	Rajasthan Agriculture University Bikaner, Campus Udaipur	1990
Ph.D. (Agril. Engg)	Soil & Water Conservation Engg	Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani (M.S.)	2017
Additional Qualification (if any): Additional Degree/Diploma/NET/SET			

Professional Experience

Stream	Years	Stream	Years
Teaching	09	Research	22
Extension	31	Administration	Nil

Area of Research/Interest

Soil & Water Conservation Engineering, Watershed Management, Dryland Farming Research

Research Guidance

Degree	No. of Student & Guided
M.Tech	13
Ph. D.	03 (SAC member)

Research Accomplishments (Recent Ten Most Important Publications)

Sr.No	Title	Journal	ISSN/ISBN	NAAS Rating
01	Impact of Morphometric Parameters and Change in Land Use on Peak Runoff Rates of Pingalgarh Watershed using Geospatial Techniques	Journal of Agricultural Engineering, Vol.55(1) pp 72-81.	ISSN: 0256-6524	5.85

02	Water Budgeting of <i>Babhulgaon</i> Watershed under Deficit Rainfall Years	Indian Journal of Dryland Agricultural Research and Development, Vol. 33(2) pp:43-49	ISSN: 0971-2062	4.58
03	Evaluation of rainwater conservation practices for reducing runoff, soil loss and enhancing moisture Availability under Rainfed Soybean.	Indian Journal of Dryland Agricultural Research and Development, Vol. 34 (1) pp:38-41	ISSN: 0971-2062	4.58
04	Influence of mechanization levels and energy dynamics on production potential of soybean under rainfed condition	Indian Journal of Dryland Agricultural Research and Development, Vol. 34 (2) pp:71-76	ISSN: 0971-2062	4.58
05	Response of mechanization levels and insitu rainwater conservation practices, their energy dynamics on production potential of soybean (<i>Glycine max</i>) under rainfed condition.	Indian Journal of Agronomy, Vol. 65 (4) pp:451-455.	ISSN number 0537-197X	5.68
06	Standardization of sub-soiling schedule and spacing for effective rainwater conservation and enhancing production of rainfed soybean.	<i>Indian Journal of Dryland Agricultural Research and Development</i> , Vol. 35 (2) pp:1-6	ISSN: 0971-2062	4.88
07	Stress Management in Rainfed Bt. Cotton (<i>Gossypium hirsutum</i>) through Foliar Sprays.	<i>Indian Journal of Agronomy</i> , Vol. 66 (3) pp:117-121.	ISSN number 0537-197X	5.68
08	Performance evaluation of conservation furrow and BBF method of sowing for soybean under varying climate on farmers field in Marathwada region of Maharashtra.	<i>Indian Journal of Dryland Agricultural Research and Development</i> , Vol. 37 (1) pp:1-5.	ISSN: 0971-2062	4.88
09	Runoff potential based farm pond designs for Latur division of Maharashtra under changing climatic condition	International Journal of Current Microbiology and applied sciences, vol.12 (12) pp. 48-55	ISSN:2319-7706	5.24
10	Designing of small water harvesting structures based on rainfall-runoff relationship for Dharashiv district of Maharashtra	International Journal of Research in Agronomy, Vol 7 (1), pp 165-167	-ISSN: 2618-060X	5.20

Credentials:

Particulars	Numbers	Particulars	Numbers
Research Articles	92	Popular Articles	97
Books / Booklets	08	Book Chapters	06
Research/Technology Recommendations	32	Varieties Developed	Nil
Patents	Nil	Abstracts Published	85
Technical Publication	32		

Significant Achievements (Top Five)

	Patent/IP/Technologies/ Varieties/Machineries Developed / Methodologies/ Recommendations	Year
1	Development of Rainfall intensity-Duration-return period relationship and nomograph for Osmanabad and beed stations of Marathwada region	2013
2	Design and evaluation of artificial well recharging system	2013
3	Development of Borewell Recharge technology for Assured rainfall region of Marathwada	2016
4	Evaporation Control Practices for reducing water loss from Farm Pond	2018
5	Determination of value of exponent 'm' in MUSLE	2019
6	Redesigning of farm pond sizes based on rainfall - runoff relationship under climatic variations for assured rainfall zone under Marathwada region	2022
7	Standardization of farm pond sizes based on rainfall - runoff relationship for Moderate to high rainfall zone under Marathwada region	2024
8	Standardization of subsoiling schedule and spacing for medium to heavy black soils of Marathwada region	2024

Externally Funded Projects: Implemented/Handled/Assisted

Sr. No.	Title of scheme		Financed by	Period / Duration
1	Stability and performance of soil and water conservation structures	PI	Director soil conservation and watershed management, Govt. of M.S.	1996 to 1997
2	Evaluation of farm pond design for maximising rain water harvesting.	PI	Director soil conservation and watershed management, Govt. of M.S	1998 to 2001
3	Impact of watershed development programme on well yield , pumping limit and withdrawal rate.	PI	Director soil conservation and watershed management, Govt. of M.S	1998 to 2001
4	Evaluation of water harvesting structures in watershed.	PI	Director Soil Conservation and watershed management Govt. of M.S	1998 to 2001
5	Effectiveness of vegetative filter strips and vegetative hedge as conservation measures in arable and non arable land of watershed.	PI	Director soil conservation and watershed management, Govt. of M.S	1998 to 2001
6	Ground water modeling in wagarwadi watershed.	CO-PI	ICAR - Adhoc	1997 to 1999
7	Evaluation of soil and water conservation structures in wagarwadi watershed	CO-PI	ICAR - Adhoc	1997 to 1999
8	Micro software for drainage	CO-PI	ICAR - Adhoc	1996 to 1997
9	Developing live fencing system		NATP-ICAR	1999 to

		for soil water conservation , crop diversification and sustaining productivity in rain fed region.	CC-PI		2003
	10	Identification of research gaps in intercropping systems under rainfed condition in India	CO-PI	NATP-ICAR	1999 to 2000
	11	Development of Irrigation Potential for enhancing seed production	CO-PI	RKVY-Central Government	2011-12 to 2013-14
	11	Climate Smart Agriculture	Member	TERI, Mumbai	2017-18
	12	National initiative on climate resilient Agriculture (NICRA)	CO-PI	CRIDA, Hyderabad(ICAR)	2014 to till date
	13	National Higher Education Project (NAHEP)	Member	ICAR & World Bank, New Delhi	2019

Awards/Recognitions (Top Five)

1	S. J. Hiran Memorial award from ISAE for significant contribution in watershed development. 2000
2	RadhaKishan Shanti Malhotra award of Rs. 10000/- for commendable work in watershed development in rural areas . the award presented in university convocation in 10-02- 2006
3	Best Teacher Award from Vasantryao Naik Marathwada Krishi Vidyapeeth, Parbhani in 2011 with cash prize of Rs. 10000/- and certificate.
4	Commendation Certificate from Hon. Vice Chancellor, VNMKV Parbhani for outstanding contribution in RKVY project, "Development of Irrigation Potential for Enhancing Seed Production" in November 2013.
5	ICAR-Vasantryao Naik Award 2018 for Research Applications in Agriculture 16 th July 2019