

Name:

Sushmita Mukherjee Dadhich



Designation

Assistant Professor (Senior Scale)

Contact Address:

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Professional Experience

12 years

Awards/honours/scholarships/fellowships

- Awarded Innovative team award to develop a Variable speed device for sprinkler system under DST (WTI) funded project.
- Awarded Innovative team award to developed Soil Compaction Measurement Device under DST funded project
- Visiting faculty fellowship under DST special Package for J&K Universities
- Ph.D. fellowship from IIT- Delhi during Ph.D
- MHRD fellowship during M. Tech.

Area of Specialization

Water Resource Management & Irrigation and Drainage Engineering

Research Interests

Integrated irrigation water management, Optimization technics and numerical modelling in water resource management, Precision farming, 17

Total no. of Publications (referred journals)

Selected publication (five)

1. Singh, P., Kumar, S. and **Dadhich, S.M.**(2017). Impact of climate variability on the production and productivity of maize (*Zea mays l*) in north western Himalayan region, India. *Journal of Agrometeorology* 19: 38-44

2. **Dadhich, S.M.**, Srivastava, R.K., Dadhich, H., Kumar, R. and Sharma, P.K. (2016). Application of Irrigation Management Model under Deficit Irrigation. Indian Journal of Ecology, 43 (Special Issue-2): 650-654
3. Garg, N.K and **Dadhich, S.M.** (2014) "A proposed method to determine yield response factors of different crops under deficit irrigation using inverse formulation approach" Agricultural Water Management, Vol. 137, pp 68-74
4. Garg, N.K and **Dadhich, S.M.** (2014) "Integrated non-linear model for optimal cropping pattern and irrigation scheduling under deficit irrigation" Agricultural Water Management, Vol. 140, pp 1-13
5. **Dadhich, S.M.**, R.P. Singh and Mahar, P.S. (2012) "Saving Time in Sprinkler Irrigation Application through Cyclic Operation: A Theoretical Approach" Irrigation and Drainage, Vol. 61, pp 631-635.

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No. of books/Manuals/Monographs
Research Projects as PI/Nodal officer

Title	Funding Agency	Period		Status (ongoing/ completed)
		From	To	
Development and Evaluation of Rooftop Rainwater Harvesting and its utilization for horticultural crops through low cost drip irrigation system at ACRA Dhiansar.	University funded	2019	-	Ongoing
National Science Day 2020 on the Focal	DST (J&K)	-	-	Completed

Theme” Women in Science”				
Development and Evaluation of Automatic Timer Based Variable Speed Device for Sprinkler System	DST (Water Technology Initiative)	2013	2016	Completed

Other achievements if any (Please specify)

- Patent filed with Application number with title “ An Automatic Timer Based Variable Speed Device For A Sprinkler”
- Organized a National Seminar on Technology and Management of Micro Irrigation in Floriculture on 19th -20th March, 2015 at Chatha, SKUAST-Jammu as a Organizing Secretary.
- Reviewer :- Agricultural water Management(Elsevier)