



NAMITHA M R

AGRICULTURAL ENGINEER

PROFILE

A dedicated and passionate Assistant Professor with 7 years of experience in teaching and research. Committed to foster a dynamic and engaging learning environment while contributing to cutting-edge research in the field of Land and Water Management Engineering. Proven track record of effective teaching, mentorship, and scholarly achievements. Adept at adapting innovative teaching methods in online and offline mode to meet diverse student needs, collaborative research and mentoring students to excel academically. My teaching philosophy emphasizes active learning, critical thinking, and real-world applications, equipping students with the skills they need to compete in this technologically developing era.

WORK EXPERIENCE

KCAEFT, Tavanur, Malappuram, Kerala 2019 MAY- PRESENT ASSISTANT PROFESSOR (C)

- Handled subjects: Drainage Engineering, Groundwater Wells and Pumps, Management of Canal Irrigation, Design of Structures, Engineering Mechanics, Strength of Materials, Building Construction and Cost Estimation, Water Quality and Management Measures, Quantity Survey and Valuation, Watershed Planning and Management, Water Harvesting and Soil Conservation Structures, Environmental Studies, and Disaster Management, Surveying and Levelling.
- Co-guided three B.Tech. projects entitled 'Determination of Unsaturated Hydraulic Conductivity of Different Soils by Inverse Modelling Using Hydrus-1D', 'Assessment of Carbon Neutrality and Sustainability of KCAET Campus' and 'Geophysical Techniques for Aquifer Characteristic Studies - A Case Study of Tavanur Grama Panchayat, Malappuram, Kerala'.
- Attended the duty as Resident Tutor from the year 2021 onwards to date.
- A committee member in preparing the Self Study Report for the ICAR Accreditation 2024 in KCAEFT, Tavanur.
- Attended the duty as Assistant Placement Officer from the year 2021 onwards till date.

SIT, Kariapatti, Madurai, Tamil Nadu 2018 AUGUST - 2019 MAY ASSISTANT PROFESSOR

- Handled subjects: Groundwater Wells and Pumps, Storage Engineering, Farm Tractors, Principles of Agricultural Engineering.

RVSETGI, Dindigul, Tamil Nadu 2017 JULY - 2018 APRIL ASSISTANT PROFESSOR

- Handled subjects: Irrigation and Drainage Engineering, On farm development works, Fluid Mechanics, Groundwater Wells and Pumps.
- Organised a State Level Technical Symposium FACENDA'18 and a National Level Technical Symposium FACENDA'19 in RVSETGI, Dindigul, during the year 2018 and 2019 respectively.
- Organised a one-day National Workshops on 'Entrepreneurship for Agricultural Engineers' and 'Agricultural Workshop on Energy Conservation' in RVSETGI Dindigul in the year 2017 and 2018 respectively.
- Supervised three B. Tech projects entitled 'Design and Fabrication of a Portable Cotton Picker', 'Determination of Infiltration Characteristics of Clay Loam soil' and Design of Rooftop Rainwater Harvesting Cistern by Simulation Technique'

CONTACT

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<https://orcid.org/0000-0003-2012-6316>

EDUCATION

2015-2017

TAMILNADU AGRICULTURAL UNIVERSITY

M. Tech. Land and Water Management
Engineering, OGPA - 8.64/10

2011-2015

KERALA AGRICULTURAL UNIVERSITY

B. Tech. Agricultural Engineering,
OGPA - 8.39/10

PROFESSIONAL SKILLS

- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking
- Problem solving

TECHNICAL SKILLS

- MS office and MS Excel
- Web Designing
- Modeling softwares like MODFLOW, Arc GIS and HYDRUS-1D

LANGUAGES

- English (Fluent)
- Malayalam (Fluent)
- Hindi (Fluent)
- Tamil (Fluent)

ARTICLES

- 1.Sajeena, S., **Namitha, M. R.**, Aparna, Haripriya, S., Lal, M. S., and Megha, P. P. (2024). Geophysical Techniques for Aquifer Characteristic Studies - A Case Study of Tavanur Grama Panchayat, Malappuram, Kerala. *Journal of the Indian Society of Coastal Agricultural Research*, 41(2), 78-93. <https://doi.org/10.54894/JISCAR.41.2.2023.142669>
- 2.Chandran S., Selvan P., **Namitha M. R.**, Pradeep Mishra and Kumar V. (2023). Probability analysis and rainfall forecasting using ARIMA model. *Mausam*. 74(3): 1051-1062.
- 3.**Namitha M. R.**, Devi Krishna J. S., Sreelekshmi H. and Muhammed Ashik P. (2019). Ground Water Flow Modelling Using Visual MODFLOW. *J. Pharmacognosy and Phytochemistry*, 8(1): 2710-2714.
- 4.**Namitha, M. R.** and, V. Vinothkumar. (2019). Development of Empirical Models from Rainfall- Intensity-Duration-Frequency Curves for Consecutive days maximum rainfall using Generalized Extreme Value Distribution. *J. Pharmacognosy and Phytochemistry*, 8(1): 2705-2709.
- 5.**Namitha, M. R.** and, V. Ravikumar. (2019). Analysis of Extreme Rainfall Events and Calculation of Return Levels using Generalized Extreme Value Distribution. *Inter. J. Pure and Applied Bioscience*, 6 (6): 1309-1316.
- 6.**Namitha, M. R.** and, V. Vinothkumar. 2019. Derivation of the Intensity-Duration-Frequency Curve for Annual Maxima Rainfall using Generalized Extreme Value Distribution. *Inter. J. Curr. Microbiol. App. Sci.*, 8 (1): 2626-2632.
- 7.**Namitha, M. R.** and, V. Ravikumar. (2018). Determination of Dispersivity in a laboratory soil column. *Inter. J. Trend in Scientific Research and Development*, 2 (4): 2731-2735.
- 8.**Namitha, M. R.** and, V. Ravikumar. (2017). Determination of unsaturated hydraulic conductivity in field conditions through inverse modeling using Hydrus-1D.*Inter. J. Science, Engineering and Management*, 2 (11): 50-57.
9. Gopika P. D., Menon Gayathri T., Kumar Suraj, Deepak Anusree K., Varughese Anu, **Namitha M. R.** (2024). Assessment of carbon neutrality and sustainability of KCAET campus in Kerala, India. *International Journal of Bio-resource and Stress Management*, 15(2), 1-10.

BOOK CHAPTERS

- 1.Blessy, V.A., Shaheemath Suhara K. K., Anu Varughese, **Namitha, M. R.**, Anjitha Krishna, P. R., Ardra Wilson and Sreeja, K. (2024). Weather Intelligence for Climate-Resilient Agriculture. In: Pandey, K., Kushwaha, N.L., Pande, C.B., Singh, K.G. (eds) *Artificial Intelligence and Smart Agriculture. Advances in Geographical and Environmental Sciences*. Springer, Singapore. https://doi.org/10.1007/978-981-97-0341-8_8.
- 2.**Namitha M. R.**, Blessy V. A., Shaheemath Suhara K. K. and Anu Varughese. (2023) *A Nanotechnology-Based Approach to Water Purification. Dimension in agricultural sciences: A way forward for sustainability* (pp. 91-111). JEC Publications. ISBN: 978-93-5850-588-7.
- 3.Anu Varughese, **Namitha M. R.**, Blessy V. A. and Shaheemath Suhara K. K. (2023). *Water Quality: Need for Sustainable Agriculture Development. Seeding the future: Multifaceted agriculture perspectives* (pp. 69-82). JEC Publications. ISBN: 978-93-5850-887-1.
- 4.Shaheemath Suhara K. K., Blessy V. A., **Namitha M. R.** and Anu Varughese (2023). *Climate Change and Its Impacts on Agriculture*. In Saket Kushwaha (Eds.), *Climate Change and Agriculture* (Vol. 8, pp. 63-82). AkiNik Publications. ISBN: 978-93-5570-687-4.
- 5.**Namitha, M. R.** (2020). *Industrial Agriculture*. In R.K. Naresh (Eds.), *Advances in Agriculture Sciences* (Vol. 24, pp. 49-59). AkiNik Publications. ISBN -978-93-9021-726-7.

AWARD/ RECOGNITION/ RANK

1. Qualified **ASRB NET - 2018** in Land and Water Management Engineering (56.22%)
2. Qualified **GATE - 2025** in Agricultural Engineering (AIR - 213)
3. Qualified **ICAR SRF - 2024** in Soil and Water Conservation Engineering (AIR - 6)
4. Best Female NSS Volunteer (NSS Special Camp, Pulari-2013)

PROFESSIONAL MEMBERSHIP

1. Life Member of Indian Society of Agricultural engineers (ISAE) - LM- 11870
2. Life Member of Indian Association of Soil and Water Conservationists (IASWC)
3. Life Member of All India Agricultural Students Association (AIASA)

EXPERT LECTURES DELIVERED

1. Guest Lecture on 'Agricultural Drainage' at RVSETGI, Dindigul.
2. Guest Lecture on 'Soil Strength and Bearing Capacity' at RVS Technical Campus, Coimbatore.
3. Guest Lecture on 'Soil and Water Conservation Structures' at RVSETGI, Dindigul.

WORKSHOPS/ TRAININGS ATTENDED

2023 (5 Days)	Application of Remote Sensing & GIS in Water Resources Engineering Organized by Centre for Remote Sensing and Geoinformatics, Sathyabama Institute of Science and Technology
2023 (5 Days)	Data Analysis with 'R' organised by Centre for e-Learning in collaboration with Dept. of Agricultural Statistics, CoA, Vellanikkara, Kerala Agricultural University
2022 (7 Days)	Estimation and Costing using PRICE-3 software organised by Institution of Engineers at Viswesaraya Bhavan, Trivandrum.
2022 (2 Days)	Hydroponic Cultivation National workshop (online) under NAHEP-IG organized by the College of Horticulture and Forestry, Jhalawar, Rajasthan.
2021 (10 Days)	Rainfall Data Analysis Using Different Packages of R-Software, Online training organised by KSCSTE-CWRDM
2021 (5 Days)	Automation in Micro Irrigation System, Online Vocational training organized by CAET, JAU, Junagadh
2020 (3 Days)	Geospatial Applications in Water Resources organised by St. Joseph's Institute of Technology.
2020 (7 Days)	Remote Sensing and GIS Applications in Civil Engineering, FDP organized by Civil Engineering Department, K L Deemed to be University.
2020 (10 Days)	Fundamentals of Drone Technology for Precision Agriculture Online training organised by CAAST-CSAWM
2020 (5 Days)	Software applications in water resources management FDP (online) organized by Centre for Remote Sensing and Geoinformatics, Sathyabama Institute of Science and Technology in association with NIT, Calicut and Indian Society of Remote Sensing
2020 (7 Days)	Recent Advances and Instrumentation in Agricultural Meteorology Online training organised by CAAST
2020 (3 Days)	Application of Remote Sensing and GIS in Water Environment, Land and Society International Workshop organised by IAWEEs and Delft
2019 (3 Days)	Student Induction Programme Through Universal Human Values by AICTE, FDP organised by AICTE at Ammini College of Engineering, Mankara
2015 (20 Days)	Soil and Water Conservation and Low-Cost Water Harvesting Techniques for West Coast Region, Inplant training at CPCRI, Kasargod.
2015 (10 Days)	Watershed Management, Inplant training at IRTC, Palakkad
2015 (10 Days)	Spice Processing, Inplant training at IISR, Calicut
2015 (1 Month)	Agricultural Mechanization, Inplant training at SRFMTTI, Anantapur
2015 (10 Days)	Dairy Science, Inplant training at KVASU Dairy Plant, Thrissur

CONFERENCE PROCEEDINGS

1. Hyderali Shihabudheen U. H., and **Namitha, M. R.** (2019). A Review on Low-Cost Water Harvesting Techniques. Souvenir of 3-day Technical Fest, KCAET, Tavanur, p-36.
2. **Namitha, M. R.**, and V. Ravikumar. (2017). Determination of unsaturated hydraulic conductivity in field conditions through inverse modeling using Hydrus-1D. Proceedings of ICASETM-2017, p-30.

POPULAR ARTICLES

1. Namitha M. R., and Anu Varughese. (2024). "Carbon Neutrality: A Crucial Strategy for Mitigating Climate Change". KOSMOS, 97-98
2. Sajeena S, **Namitha M. R.**, and Abdul Hakkim V. M. (2023). "Hydroponics". Krishi Anganam, 6(1), 13-16.
3. Anu Varughese and **Namitha M. R.** "Krithyathaakrishiya plastic puthayidalum" Krishi Anganam, 6(1), 13-16.
4. Ardra Wilson., Sreeja K. and **Namitha M.R.** (2021, August). "Geopolymer – a green concrete". Indian Farmer, 8(8), 469-470.
5. **Namitha M. R.**, Praveena K. K., Sreeja K and Ardra Wilson. (2020, August). "Virtual Water Trade - Indian Scenario". Indian Farmer, 7(8), 752-754.
6. Sreeja K., **Namitha M. R.**, Praveena K. K. and Ardra Wilson. (2020, July). "Mulching: A water saving approach for summer cultivation". Indian Farmer, 7(7), 641-642.
7. Praveena K.K., Sreeja K. and **Namitha M.R.** 2020. "Kaalavastha vyathiyavum anubandha prasnangalum". Krishi Jagran.

NATIONAL AND INTERNATIONAL CONFERENCES/ SEMINARS

- Participated in the National Seminar on "Contemporary Challenges in Processing, Quality and Safety of Food", KCAET, Tavanur, in the year 2022.
- Participated in a 3-day Technical Fest - 2019, KCAET, Tavanur.
- Organised a National Level Technical Symposium FACENDA'19 in RVSETGI, Dindigul, in the year 2019.
- Organised a State Level Technical Symposium FACENDA'18 in RVSETGI, Dindigul in the year 2018
- Organised an 'Agricultural Workshop on Energy Conservation' in RVSETGI Dindigul in the year 2018.
- Organised a one-day National Workshops on 'Entrepreneurship for Agricultural Engineers' in the year 2017.
- Participated and presented a paper in the International Conference on Advanced Science, Education, Social Science, Technology, and Management (ICASETM) in the year 2017.