

Name : Dr. SEENU P Z

Designation: Assistant Professor

Department: Department of Civil Engineering

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Experience: **Teaching:** 1years **Research:** 6 months **Others:**

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	University / Board	Specialization
1	PhD	2022	NIT Warangal	Civil Engineering
2	M.Tech	2016	NIT Warangal	Water Resources Engineering
3	B.Tech	2013	Kerala University	Civil Engineering
4	Plus Two	2009	Kerala Higher Secondary Board	Biology Mathematics
5	SSLC	2007	SCERT, Kerala	

2. Teaching and Learning:

2.1. Teaching Interests:

Engineering Hydrology, Water Resource Engineering, Irrigation Engineering, Fluid Mechanics, Hydraulics & Hydraulic Machines, RS & GIS, Disaster Management, Environmental Studies,

2.2 Novel Teaching & Learning Techniques adopted:

- WIT & WIL
- NPTEL videos and NPTEL online courses
- Discussing with senior faculty and subject experts
- Using Black Board as well as Projector for showing any related videos and PPTs
- Classroom discussions to help the students to deepen their understanding of the topics
- Tutorial classes to make the students practice more problems.
- Gather student's feedback on the topic covered
- Discussion on case studies
- Journal references

3. Co-curricular and Extra-Curricular Activities

3.1 Interests and Hobbies:

3.2 CCA/ECA Organized:

3.3 Counseling and Mentoring Activity:

3.4. Committees involved in:

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:

A. Conferences:

B. Faculty Development Program:

4.2 Workshops/Seminars/ Guest Lectures Attended:

- Two-day in-house workshop on Hydrological and Water Resources Modelling of River Basins Under Climate Change Scenarios, as part of SPARC sponsored project: real time forecasting of floods using SWAT Model, National Institute of Technology Warangal, 3rd – 4th July 2019
- International Conference on Numerical Optimization in Engineering and Sciences (NOIEAS), National Institute of Technology Warangal, 9th – 21st June 2019
- Telangana state science congress (TSSC-2018), Telangana Academy of Sciences, National Institute of Technology Warangal, 22nd – 24th December 2018
- Global initiative of academic networks (GIAN) on Geographic Information Systems (GIS) Methods for Flood Risk Management, National Institute of Technology Warangal, 25th July – 1st August 2018
- A Five-day faculty development workshop on R- Programming Concepts and Applications for Teachers in Higher Education, National Institute of Technology Warangal, 13th – 17th September 2017
- GIAN course for “Extreme Weather and Climate Variability: Observation, understanding and Prediction” (23rd to 31st December 2016) at IIT Bhubaneswar.
- GIAN course for “Hydrologic Modeling and Climate Change” (5th to 16th December 2016) at G B Pant University, Uttarakhand, India.
- International Conference on Climate Change Water, Agriculture and Food Security (2nd to 3rd November 2016) held at ICRISAT, Hyderabad, India.
- Workshop on “Monsoon school on Urban Floods” at IISC Bangalore, India. (22nd to 27th August 2016).
- One day conference on Ground Water Perspective and Holistic Management in Andhra Pradesh and Telangana States, Central ground water board, Ministry of Water Resources, River Development and Ganga Rejuvenation, government of India, 28th March 2016
- SWAT Modelling at National Institute of Technology, Warangal, India, 18th December 2014.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: NIL

5.2. Articles / Chapters published in Books:

5.3. Books published as single author or as editor:

5.4. Projects Guided:

a) **UG:** NIL

b) **PG:** NIL

5.5. Research Interests: Flood Modelling, Climate change, Remote sensing and GIS, LULC

5.6. *Ph.D students:* NIL

5.7. Papers published in reviewed Journals:

- **Seenu P Z** and Jayakumar K V (2021) “Comparative study of innovative trend analysis technique with Mann-Kendall tests for extreme rainfall” Arabian Journal of Geosciences. <https://doi.org/10.1007/s12517-021-06906-w> (SCIE)
- **Seenu P Z** and Jayakumar K V (2020) “Optimisation of Bias Correction Methods for RCM Precipitation Data and their Effects on Extremes.” Advances in Intelligent Systems and Computing https://doi.org/10.1007/978-981-15-3215-3_9 (SCOPUS)
- **Seenu P Z**, Venkata Rathnam E, and Jayakumar K V (2019) “Visualisation of urban flood inundation using SWMM and 4D GIS.” Spatial Information Research. doi:10.1007/s41324-019-00306-9 (ESCI)

5.8. Papers presented at National / International Conferences:

- **Seenu P Z** and K V Jayakumar, “Flood mitigation using best management practices for an urbanizing area.” International conference on Integrated water resources management: Prospects and challenges – 2022, Karunya university.
- **Seenu P Z** and K V Jayakumar, “Flood Mitigation using Low Impact Development in Urbanising Area – A Case Study” International Virtual Conference on Innovative Trends in Hydrological and Environmental Systems (ITHES-2021), NIT Warangal.
- Khalsa S G S, **P Z Seenu**, V N Kameswara Rao and K V Jayakumar “Monthly, Seasonal and Annual Extreme Rainfall Trend Analysis of South Indian Metropolitan Cities using High- Resolution Gridded Data, 8th Asia Pacific Association of Hydrology and Water Resources (APHW) International Conference -2019, IIT Roorkee.
- **Seenu P Z** and K V Jayakumar, “Optimisation of Bias Correction Methods for RCM Precipitation Data and their Effects on Extremes” International Conference on Numerical Optimization In Engineering and Sciences (NOIEAS-2019), NIT Warangal.
- **Seenu P Z**, Rashmi Yadav and K V Jayakumar, “2D Urban Flood Inundation Model Using HEC-RAS – Case Study” 8th Asia Pacific Association of Hydrology and Water Resources (APHW) International Conference-2019, IIT Roorkee.
- **Seenu P Z** and K V Jayakumar, “Statistical trend, homogeneity and stationarity analysis of annual rainfall for Amaravati - Andhra Pradesh” First Telangana State Science Congress - 2018, NIT Warangal.
- **Seenu P Z**, E V Rathnam and K V Jayakumar, “Flood inundation study of part of Hyderabad city using SWMM AND GIS” Hydro-2017 International conference, Ahmedabad, India

5.9. Sponsored research Projects: NIL

5.10 Consultancy Projects:

- Title: Canal inundation study for Adani Gangavaram Port

6. Awards / Honors received:

MHRD fellowship during PhD

7. Motto: If there is a will, there is a way