

Dr. Rahul T .S

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 <https://icet.ac.in/civil-engineering-departments/>



Employment History

Dec 2025 –	 Professor and Head , Department of Civil Engineering Ilahia College of Engineering and Technology
Mar 2024 – Nov 2025	 Associate Professor and Head . Department of Civil Engineering, Sreepathy Institute of Management and Technology
Jan 2020 – Dec 2023	 Assistant Professor . Department of Civil Engineering, Royal Engineering College
Jul 2017 – Dec 2020	 Full Time Research Scholar . Department of Civil Engineering, Karunya Institute of Technology and Science, Coimbatore
Jun 2015 – Jun 2017	 Assistant Professor . Department of Civil Engineering, Al-Ameen Engineering College, Kerala

Education

From April 2025 —	 Post Doctorate Fellowship (pursuing in remote collaboration, New Castle University, Singapore campus): Thesis title: <i>Thesis Focus: Synergizing Regression Analysis and ANN for surface water quality model development in Muthupet Estuary using PRISMA Hyperspectral imagery</i>
Feb 2024	 PhD Awarded , Karunya Institute of Technology and Science: PhD in Civil Engineering. Thesis Focus: Water quality assessment using remote sensing techniques and artificial neural network for inland and coastal water bodies..
2013-2015	 Post Graduation , JCT College of Engineering and Technology, Coimbatore: ME in Structural Engineering .
2007-2011	 Under Graduation , Royal College of Engineering and Technology, Thrissur: B.Tech in Civil Engineering .

Research Publications

Journal Articles

- 1 T. S. Rahul and J. Brema, "Assessment of water quality parameters in muthupet estuary using hyperspectral prisma satellite and multispectral images," *Environmental Monitoring and Assessment*, vol. 195, no. 8, p. 880, 2023.  DOI: <https://doi.org/10.1007/s10661-023-11497-y..>
- 2 T. S. Rahul, J. Brema, and G. J. J. Wessley, "Evaluation of surface water quality of ukkadam lake in coimbatore using uav and sentinel-2 multispectral data," *Environmental Monitoring and Assessment*, vol. 194, no. 5, pp. 3205–3220, 2022.  DOI: <https://doi.org/10.1007/s13762-022-04029-7>.

Conference Proceedings

- 1 J. Brema, S. Srinithisathian, E. J. James, S. J. Vijay, and T. S. Rahul, "Monitoring of water quality variation trends in a coastal wetland system, a ramsar site: A gis and water quality index based assessment," in *Sustainable Advanced Technologies for Industrial Pollution Control*, D. Mazumder, Ed., ser. ATIPC 2024, Cham: Springer, 2026, pp. 15–31.  DOI: 10.1007/978-3-032-07962-6_2.

- 2 T. S. Rahul, J. Brema, and G. J. J. Wessley, "A novel remote sensing based approach to estimate the water quality index using sentinel-2 multispectral data," in *Proceedings of the IEEE International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN)*, IEEE, 2022. DOI: [10.1109/ICSTSN53084.2022.9761360](https://doi.org/10.1109/ICSTSN53084.2022.9761360).
- 3 J. Brema, T. S. Rahul, and J. J. Julius, "Study on drought monitoring based on spectral indices in noyyal river sub-watershed using landsat-8 imageries," in *Proceedings of International Conference on Remote Sensing for Disaster Management*, P. Rao, K. Rao, and S. Kubo, Eds., ser. Springer Series in Geomechanics and Geoengineering, Cham: Springer, 2019, pp. 473–482. DOI: [10.1007/978-3-319-77276-9_42](https://doi.org/10.1007/978-3-319-77276-9_42).
- 4 J. Brema, J. Santhosh Kumar, K. Prathibaa, and T. S. Rahul, "Vibration measurement of a steel bridge using smart sensors: Deployment and evaluation," in *Proceedings of International Conference on Remote Sensing for Disaster Management*, P. Rao, K. Rao, and S. Kubo, Eds., ser. Springer Series in Geomechanics and Geoengineering, Cham: Springer, 2019, pp. 483–491. DOI: [10.1007/978-3-319-77276-9_43](https://doi.org/10.1007/978-3-319-77276-9_43).

Patents

Design Patents  "Modular Dashboard Interface for Real-Time Environmental Monitoring," UK Design Patent, Design No. 6458165, Registered on 04 Aug 2025.

Skills

Languages  Strong reading, writing and speaking competencies for English and Malayalam
Softwares  CAD, MATLAB, STAAD, ArcGIS , LATEX
Misc.  Academic research, teaching, LATEX typesetting and publishing.

Miscellaneous Experience

Awards and Achievements

2016  **Merit Award**, 100% Result in Calicut University B.Tech result
2015  **Merit Award**, 100% Result in Calicut University B.Tech result

Certification/Affiliation

2025 Feb-  **IEEE Member**
2025 Apr-  **ICEC Member**

Seminars

2026  **Organized FDP on Practical aspects of planning a hydroelectric project by Kerala State Electricity Board (KSEB) in Jan 2026**, at Ilahia College of Engineering and Technology, Ernakulam
 **Attended International virtual FDP on Sustainability in construction sector in Jan 2026**, by JCT College of Engineering and Technology(Autonomous) , Coimbatore
2025  **Attended FDP on Smart city Technologies and IoT in Aug 2025**, by SCSVMV University, Tamil Nadu.
 **Attended FDP on Integrating AI in to Civil Engineering: Challenges and Opportunities in Apr 2025**, by Thejus Engineering college, Thrissur.
2023  **Organized KTU sponsored FDP on Sustainable solutions to environmental water quality issues in Jan 2023**, Royal College of Engineering and Technology
2022  **FDP on Machine Learning in Feb 2022**, Providence College

Miscellaneous Experience (continued)

Duties/Responsibilities

- 2025
 - Contributed to Research wing by submitting innovative project proposals
 - IQAC Coordinator
 - Led professional development workshops and seminars on effective use of technology tools.
 - Planned and executed national-level conferences and Faculty Development Programs (FDPs)
 - NBA Coordinator
 - Student Grievance Coordinator
- 2022 ■ Department Newsletter Incharge
- 2021 ■ Mentor 2017-21 CE Batch
- Department Newsletter Incharge

References

Dr. E.J. James,
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