

# Dr. Rahul T .S

✉ rahults@icet.ac.in

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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: *Thesis Focus: Synergizing Regression Analysis and ANN for surface water quality model development in Muthupet Estuary using PRISMA Hyperspectral imagery*
- 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](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](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](https://doi.org/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.
- 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.
- 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.

## 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 Technoligies 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 sponsered 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)

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### 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

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**Dr. E.J. James,**  
Pro Vice-Chancellor  
Karunya Institute of Technology and Science  
Coimbatore  
Tamil Nadu  
ejjamesm@gmail.com

**Dr. K. A. Navas**  
Principal,  
Ilahia Collage Of Engineering & Technology,  
Mulavoor P.O, Muvattupuzha  
principal@icet.ac.in