

**Mr. Trishul A. M.** M.Tech., (Ph.D.)

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### Educational Qualifications

Year	Qualification	University/Institution	Field of Study
Pursuing Ph.D		JSS Science and Technology University, Mysuru	Detection and Degradation of Environmental Pollutants
2019	M.Tech	JSS Science and Technology University, Mysuru	Environmental Engineering
2017	B.E	Sri Jayachamarajendra College of Engineering, Mysuru	Environmental Engineering

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### Professional Experience

Institution	Designation	Period
JSS Science and Technology University, Mysuru	Assistant Professor	1 December 2022 – Present

### Research Areas:

Wastewater Treatment  
Carbon Capture  
Environmental Pollutant Detection  
Electrochemical Sensors  
Nanomaterials for Environmental Applications

### Publications

- An enhanced non-enzymatic electrochemical sensor based on the Bi<sub>2</sub>S<sub>3</sub>-TiO<sub>2</sub> nanocomposite with HNTs for the individual and simultaneous detection of 4-nitrophenol and nitrofurantoin in environmental sample
- Development of 2D zinc-aluminum hexagonal LDHs for catalytic degradation of food colorant Allura Red dye: Catalytic properties and DFT studies.
- Synthesis of LaW/Ag/GNRs nanocomposite: Application as transducer material for simultaneous nanomolar detection of synthetic dyes and as anode material for Li-ion batteries.

- Sphere-like Gd<sub>2</sub>BiMoO<sub>6</sub> double perovskite decorated on graphene oxide for sensitive detection of nitrofurantoin in environmental matrices and DFT interpretation

### **FDP's attended**

- Design Excellence: Mastering 2D and 3D Modelling with AutoCAD and Fusion 360
- Introduction to Machine Learning and AI for Sustainability” workshop conducted under the AI for Future Workforce initiative by Intel
- Faculty Development Program on “Next Generation Research on Energy Materials” organized by Sakunthala Engineering College
- three-day face-to-face Faculty Development Program on “Inculcating Universal Human Values in Technical Education” organized by AICTE
- Faculty Development Program on “A Practical Approach to Cybersecurity and Digital Forensics” organized by IIT Guwahati
- Faculty Development Program on “Outcome Based Education and Accreditation – Graduate Attributes and Professional Competency 4.0” organized by NITTTR.

### **Conferences**

- A sustainable alternative to conventional and chemical products. One day international conference on Bridging chemistry and food – An integrated approach for sustainable society .JSSSTU Mysore