Sami Jan Lolu

Assistant Professor
Department of Electrical Engineering
Islamic University of Science & Technology (IUST)
Awantipora, Jammu & Kashmir – 192122, India
Email: sami.jan@islamicuniversity.edu.in | Contact: +91-8082332405

PROFESSIONAL PROFILE

Dedicated academician and researcher with over 10 years of teaching and research experience in Electrical Engineering. Expertise in Active Disturbance Rejection Control (ADRC), Load Frequency Control, Power Electronics, and Renewable Energy Systems. Actively involved in externally funded research projects as Principal Investigator and Co-Principal Investigator.

EDUCATION

Ph.D. (Pursuing) – Electrical Engineering, National Institute of Technology (NIT) Srinagar

M.Tech – Electrical Engineering (Academic Honour), Lovely Professional University, 2013

B.Tech – Electrical Engineering, University of Jammu, 2010

ACADEMIC EXPERIENCE

Assistant Professor IUST (March 2014 – Present)

Lecturer, Government Polytechnic College Kulgam (2013–2014)

Lecturer, KITE Polytechnic College, Rangreth (2011)

Total Teaching Experience: 10+ Years

RESEARCH INTERESTS

• Active Disturbance Rejection Control (ADRC)

• Load Frequency Control in Power Systems

• Robust & Adaptive Control

• Power Electronics & Power Quality

• PID Controller Optimization

• Renewable Energy Integration

• IoT-Based Smart Healthcare Systems

FUNDED RESEARCH PROJECTS

Co-Principal Investigator (Ongoing): Development and Validation of an IoT-Enabled Smart IV Infusion System for Patient Safety in Resource-Constrained Hospitals. Funding Agency: JKST&IC | Grant: ₹10,00,000 | Duration: 24 Months.

Principal Investigator (Under Submission): Development & Implementation of Automated, Eco-Friendly Sanitary Napkin Incinerators for Safe Menstrual Waste Management in Girls Schools of Anantnag Town. Funding Agency: JKST&IC | Grant: ₹10,00,000 | Duration: 24 Months.

JOURNAL PUBLICATIONS

1. Real-Time Impact of Voltage Variation on Variable Frequency Transformer During Asynchronous Power Transfer, Engineering Research Express (IOP Publishing), 2025. DOI: 10.1088/2631-8695/adde12. Impact Factor: 1.5 | UGC CARE Group II | Co-Author (2/4).

2. Wetlands: An Imbroglio of Interlinked Carbon Pools, Tropical Ecology, 2018. Impact Factor: 0.708 (Thomson Indexed) | UGC CARE Group II | Co-Author.

3. Integrated Civil and Electrical Engineering Strategies for Energy-Efficient Residential Buildings in Cold/Mixed Climates, International Journal of Applied Engineering & Technology, 2020. UGC CARE Group II | Corresponding Author.

4. Approaches for Tuning of PID Controller, 2020. Corresponding Author.

5. Comparative Analysis of Single-Phase Improved Power Quality Converter, 2019. Corresponding Author.

6. Comparison of PID Tuning Methods for First Order Plus Time Delay System, 2018. Corresponding Author.

7. Comparison of Common PID Tuning Methods for Higher Order Plants, 2016. Corresponding Author.

INTERNATIONAL CONFERENCE PUBLICATIONS

• IEEE Sponsored ICAECT 2026 – ADRC & Load Frequency Control.

• IEEE Sponsored ICAECT 2026 – Robust Strategies for Power Systems.

• AITA 2024 – ADRC in Feedback Control System Design.

FACULTY DEVELOPMENT PROGRAMMES / CERTIFICATIONS

• Building Integrated Photovoltaic Technology (2025)

• Recent Advances in Solar & Wind Energy Systems (2025)

• Grid Decarbonisation & Distributed Energy Resources (2023)

• Advanced Control of Standalone Energy Systems (2022)

• MATLAB/Simulink Internship (2021)

• Outcome-Based Education & Accreditation (2020)

TECHNICAL SKILLS

MATLAB/Simulink | PSCAD | PSPICE

Control System Simulation | Research Methodology | Technical Writing

DECLARATION

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

Sami Jan Lolu

Place: Awantipora

Date: 13:02:2026

Signature: