

Gul Mohammad

Current Designation: Assistant Professor (HOD)

Department: Electronics

Date of Joining: 01.10.2016

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1. Academic Qualifications

Degree	Institution	Year	Subject/Discipline
B.Tech.	West Bengal University of Technology	2012	ECE
M.Tech.	The University of Burdwan	2014	E & CE (Microwave)

2. Specialization and Area of Interests

Specialization: Microwave Engineering

Area of Interests: My research and professional interests span a broad spectrum of electronics, with a focus on cutting-edge technologies and their practical applications. My key areas of interest include:

- Embedded Systems & IoT** – Design and development of smart embedded systems, IoT-enabled devices, and edge computing for industrial and consumer applications.
- VLSI & Chip Design** – Advanced VLSI design, FPGA-based systems, ASIC development, and low-power integrated circuit design.
- Power Electronics & Renewable Energy Systems** – Energy-efficient power converters, motor drives, and integration of renewable energy sources with smart grids.
- Wireless & RF Communication** – 5G/6G technologies, antenna design, RF circuit optimization, and wireless sensor networks.
- Nanotechnology & Semiconductor Devices** – Emerging semiconductor materials, nanoelectronics, and MEMS/NEMS for next-gen electronic devices.
- Biomedical Electronics** – Wearable health monitoring systems, bioinstrumentation, and medical imaging technologies.
- Industry 4.0 & Smart Manufacturing** – Cyber-physical systems, industrial IoT, and automation for smart factories.

I am also passionate about fostering innovation through interdisciplinary research, academic-industry collaboration, and mentoring the next generation of students of electronics.

3. Teaching Responsibilities:

a) **Course Delivery** – Teaching core and advanced electronics subjects such as:

- Circuit theory
- Signal and system
- Microwaves devices and circuit
- Electromagnetics, Antenna and Wave Propagation
- C Programming, Data Structure, Scilab, Python
- Advanced Engineering Mathematics

b) **Laboratory Supervision** – Overseeing and conducting hands-on lab sessions

c) **Project Guidance** – Mentoring students for Final-year projects

d) **Student Assessment & Evaluation**

e) **Academic Counseling**

f) **Industry-Academia Collaboration**

4. Publications

➤ **Research Papers in Journals**

1. [Sun, Soil, and Sustainability: Opportunities and Challenges of Agri-Voltaic Systems in India](#)
2. [Harnessing Magnetic Fields for Sustainable Agriculture: A Study on Crop Growth, Yield, and Stress Resistance](#)

5. Conferences/Seminars/Symposia/Workshops Attended

Name of Event	Role (Participant/Presenter/Organizer)	Date	Venue
A 4- week Induction/Orientation Programme for “Faculty in University/College/Institutions of Higher Education”	Participant & Presenter	26/06/2020 to 24/07/2020	
UGC-Sponsored Faculty Induction Programme/ OP	Participant & Presenter	16/11/2021 to 17/12/2021	
Inter-disciplinary Subject Refresher Course in Environmental Studies	Participant & Presenter	27/09/2022 to 11/10/2022	

6. Administrative Responsibility

- ❖ Officer-in-Charge of Online Admission & Registration Sub-Committee
- ❖ Member of Examination Sub-Committee
- ❖ Joint Convener of ICT Sub-Committee
- ❖ Member of Seminar/ Workshop/ Conference Sub-Committee
- ❖ Member of Purchase and E-Tender Sub-Committee
- ❖ Member of HRMS & CMS Sub-Committee
- ❖ Joint Convener of Data Management Sub-Committee
- ❖ Member of Environmental Consciousness and Sustainability and Waste Management Committee