

Clean Energy and Power group

is devoted to the study of integration of clean and sustainable energy sources into power grids. The research scope encompasses design & simulation of solar PV cells, smart grids, power electronics (especially FACTS devices), dynamic simulation and estimation of power systems, identification and design of micro grids. The group also focuses on the study of energy efficiency, and impacts of electric vehicles on grid and environment.

- **Professor M. Mofazzal Hossain**
- **Dr. Tama Fouzder**
- **Dr. Mirza Rasheduzzaman**
- **Mr. Shameem Hasan**



Biomedical Signal Processing and Machine Learning group

addressing important issues in audio, speech, image, biomedical signal and video signal processing for detection, enhancement and recognition.

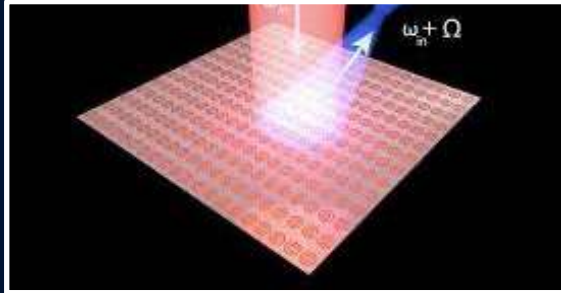
- **Dr. Mirza Rasheduzzaman**
- **Dr. A B M Sayeed Ud Doulah**
- **Mr. Shameem Hasan**
- **Mr. Md. Zesun Ahmed Mia**



Internet of Things (IoT) and Smart Systems group

focuses on research in the development of new and/or upgrading existing system for a wide range of applications incorporating Internet of Things (IoT). The group is also devoted to carry research work on embedded systems, smart systems, and sensor networks. Also the work includes the measurement and analysis of sensor data, electrical activity and incorporate potential use of IoT technology.

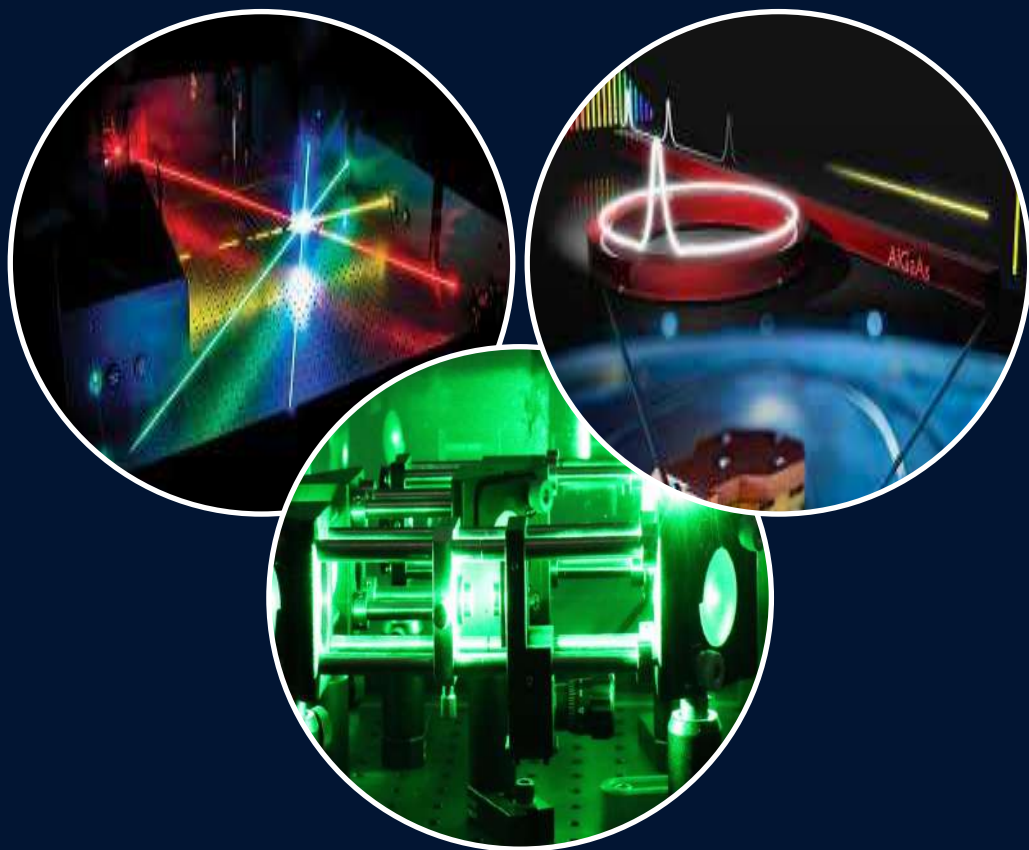
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Microwave and Antenna Engineering group

focuses on research in microwave circuits design and simulation, antenna engineering and electromagnetics for applications ranging from communication to medical and industrial.

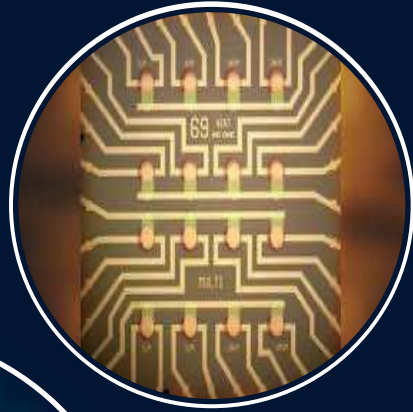
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Photonics and Nanotechnology group

focuses on research in the simulation, development and applications of advanced photonic technologies and of novel nanomaterials to address modern challenges in photonic and quantum technologies, new nanostructured materials, sensing, imaging and clean energy. The group also devoted to provide cutting-edge research in optical, mechanical and structural properties of nanostructures and nanoparticles.

- **Professor M. Mofazzal Hossain**
- **Dr. Tama Fouzder**
- **Mr. Md. Zesun Ahmed Mia**



Electronics and VLSI group

focuses on research in the simulation, design, modeling and experimental characterization of Low power Analog, Digital and Mixed-signal circuits and systems, radio-frequency (RF) integrated circuits (IC). The group is also engaged in investigating cutting-edge research in Biomedical Electronics, materials science and electronic devices to circuits and system and field-programmable gate array (FPGA), sustainable electronic technologies.

● **Dr. Tama Fouzder**

● **Mr. Md. Zesun Ahmed Mia**