

## **M.Sc. Engg./ M. Engg. Program, April 2021 Semester**

### **Department of EEE, BUET**

Here is a list of faculty members from Dept of EEE, with their relevant area of research. After publication of the MSc admission result for April 2021 session, the newly admitted students are requested to take consent of a potential supervisor from the list below. The procedure will be posted later. Students can also visit <https://eee.buet.ac.bd/> .

Sl. no.	Name of the Faculty	Area of Research*	Research Keywords
1	Dr. Md. Saifur Rahman saifur@eee.buet.ac.bd	EEPS, EP, CSP	Non-traditional Renewable Energy; Non-traditional Electromagnetics; Quantum-, Traditional- and Non-traditional Communication Systems.
2	Dr. Pran Kanai Saha sahapk@eee.buet.ac.bd	CSP, EP	Global Navigation satellite system (GNSS), Robotic Control and Automation, UWB communication for medical application, UWB Antenna, EM wave propagation.
3	Dr. Quazi Deen Mohd Khosru qdmkhosru@eee.buet.ac.bd	EP	Quantum Computing, Nanoelectronic Materials and Devices, Photonic Devices, Quantum Transport
4	Dr. Md. Shafiqul Islam islams@eee.buet.ac.bd	EP	Nanoelectronic Materials and Devices, Photovoltaics
5	Dr. Md. Kamrul Hasan khasan@eee.buet.ac.bd	CSP	Computer Vision, Robotics, Digital Forensics, Machine Learning, Adaptive Filters, Medical Imaging, Medical Image Segmentation and Classification, IoT-based System Design
6	Dr. Md. Aynal Haque aynal@eee.buet.ac.bd	CSP	Medical SP, Medical Imaging
7	Dr. A. B. M. Harun-Ur-Rashid abmhrashid@eee.buet.ac.bd	EP	Hardware Security, Neuromorphic Computing, EV related power electronic, Next generation interconnects, Application of novel nanodevices.

Sl. no.	Name of the Faculty	Area of Research*	Research Keywords
8	Dr. Sharif Mohd. Mominuzzaman momin@eee.buet.ac.bd	EP, EEPS	Nano-electronic Materials and Nano-Devices: Optoelectronic Properties (Raman, Plasmonics) and Device: CNT/Fullerenes, Quantum Dots, Nano-Wires/Rods, Photonic Devices (LED, Laser, PV Solar Cells), Quantum Transport (SET).  EEPS: Photovoltaic systems/Hybrid/Renewable Energy Systems
9	Dr. Mohammad Jahangir Alam mjalam@eee.buet.ac.bd	EEPS, EP	Renewable Energy, Solar PV System, Power Electronics, Converters
10	Dr. Md. Shah Alam shalam@eee.buet.ac.bd	EP, CSP	Plasmonic Sensors, Plasmonic Modulators, Optomechanical Nanophotonic Structures, Machine Learning, SC Generation in Nanowires, Metamaterials
11	Dr. Md. Ziaur Rahman Khan zrkhan@eee.buet.ac.bd	EEPS	Renewable Energy System, Solar PV system Designs, Power Electronics, Converters, Electric Vehicles
12	Dr. Mohad. Imamul Hassan Bhuiyan imamul@eee.buet.ac.bd	EP, CSP	Biomedical signal, image and video processing; SAR image processing; machine-learning; PCF; power system
13	Dr. Shaikh Anowarul Fattah fattah@eee.buet.ac.bd	CSP	Deep Learning, Biomedical SP. Robotics & Industrial Automation, Biometric Security, Digital Forensic & Cyber security, Medical Imaging, HCI, Computer Vision
14	Dr. Md. Nasim A. Dewan dewan@eee.buet.ac.bd	EP	
15	Dr. S. M. Mahbubur Rahman mahbubur@eee.buet.ac.bd	CSP	Vision-Based Processing, Learning Models, Virtual Reality, Forensics
16	Dr. Muhammad Anisuzzaman Talukder anis@eee.buet.ac.bd	EP	Nanophotonics, Plasmonics, Lasers, Biosensors, Photovoltaics, Photoelectrochemical cells

Sl. no.	Name of the Faculty	Area of Research*	Research Keywords
17	Dr. Celia Shahnaz celia@eee.buet.ac.bd	CSP, EEPS	Deep Learning, Computer vision, Medical Imaging, Signal processing for Speech, image, video, and power signals, Social and health Robotics, IoT based Assistive Technology, Natural Language Processing
18	Dr. Mohammad Ariful Haque arifulhoque@eee.buet.ac.bd	CSP	Deep Learning, Digital Signal Processing, Reinforcement Learning, Speech Recognition, Natural Language Processing
19	Dr. Abdul Hasib Chowdhury hasib@eee.buet.ac.bd	EEPS	Power system –stability, reliability, optimization; RE integration; Power quality; Power system transients
20	Dr. Farseem Mannan Mohammedy farseem@eee.buet.ac.bd	EEPS, EP	Energy modeling, renewables, LCA, Energy economics. Mid-IR sensors and optoelectronic devices, nanowires, PVs, modeling surface leakage.
21	Dr. Mohammad Faisal mdfaisal@eee.buet.ac.bd	CSP, EP	Fiber-optic communication, FSO, Plasmonics, PCF
22	Dr. Samia Subrina samiasubrina@eee.buet.ac.bd	EP	Nanomaterials, Nanoelectronic devices, Quantum transport, PV
23	Dr. Md. Forkan Uddin mforkanuddin@eee.buet.ac.bd	EEPS, CSP	Smart Grid Load Management, Wireless LAN, 5 & 6G Communication
24	Dr. Md. Farhad Hossain mfarhadhossain@eee.buet.ac.bd	CSP	Wireless Cellular networks, IoT networking, M2M/D2D communications, Smart Grid Communications, Wireless Sensor Networks
25	Dr. Lutfa Akter lutfaakter@eee.buet.ac.bd	CSP	6G, Deep learning, Federated learning, HAPS, Underwater Communication
26	Dr. Md. Kawsar Alam kawsaralam@eee.buet.ac.bd	EP	Topological Materials, Photonic and optoelectronic, nanoelectronic devices
27	Dr. Md. Shamim Reza shamim_reza@eee.buet.ac.bd	EEPS	Power Electronics, Power Converter Design, Nonintrusive Load Monitoring, Harmonics Detection and Mitigation, Voltage Fluctuation

Sl. no.	Name of the Faculty	Area of Research*	Research Keywords
			Mitigation, Phase-Locked Loop for Grid Synchronization, PMU Algorithm
28	Dr. Shaikh Asif Mahmood asifmahmood@eee.buet.ac.bd	EP	X-ray detectors, Solar cells
29	Mr. Yeasir Arafat arafat@eee.buet.ac.bd	EEPS, EP	Power Electronics, Electric Vehicle, VLSI
30	Dr. Apratim Roy apratimroy@eee.buet.ac.bd	EP	Micro and nanoelectronics, Radio frequency architectures
31	Dr. Mahbub Alam mahbubalam@eee.buet.ac.bd	EP	Quantum Materials, Nanoelectronic devices, 2D materials (Graphene, TMD), Quantum transport,
32	Dr. Nahid-Al-Masood nahid@eee.buet.ac.bd	EEPS	Power System, Renewable Energy
33	Dr. Md. Zunaid Baten mdzunaid@eee.buet.ac.bd	EP	Optoelectronics, Photonics, Solid-state Electronics
34	Dr. Hafiz Imtiaz hafizimtiaz@eee.buet.ac.bd	CSP	Privacy-preserving machine learning, optimization, decentralized computation, matrix/tensor factorization
35	Dr. Muhammad Abdullah Arafat abdullah_arafat@eee.buet.ac.bd	EEPS, EP, CSP	Wireless Power Transfer, Electric Vehicles, Brain Computer Interfacing, Implantable and Wearable Devices, Brain Signal Analysis
36	Dr. Sajid Muhaimin Choudhury sajid@eee.buet.ac.bd	EP, EEPS	Nanophotonic Biosensors, Nanophotonics, Plasmonic Water Desalination, Thermophotovoltaics, Photonic Neuromorphic Computing, Topology Optimization of Photonic Structure, Sustainable Off-grid PV solutions
37	Dr. Ahmed Zubair ahmedzubair@eee.buet.ac.bd	EP, EEPS	Theoretical study, fabrication, and characterization of Photonic and electronic Nano-materials and nanodevices; Ultrafast Optical Phenomena; Terahertz Detectors and Polarizers; Wearable Technology; Renewable Energy

Sl. no.	Name of the Faculty	Area of Research*	Research Keywords
38	Dr. Md. Asiful Islam maislam@eee.buet.ac.bd	CSP, EP	CSP: Microwave Imaging, Electrical Capacitance Tomography, Electrical Impedance Tomography, Deep Learning in Tomographic Imaging EP: Plasmonic Sensors, Periodic Structures, Photonic Waveguides& Cavities, Metamaterials
39	Dr. Orchi Hassan orchi@eee.buet.ac.bd	EP	Neuromorphic Computing, Spintronic and Nanoelectronic Devices, ML Hardware Design, Mixed-Signal Circuit Design

\***Research Area:** EEPS: Electrical Energy and Power Systems, EP: Electronics and Photonics, CSP: Communication and Signal Processing.