



AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

PROSPECTUS FOR ADMISSION TO M.SC. ENGG. AND M. ENGG. IN ELECTRICAL & ELECTRONIC ENGINEERING





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About AUST

The Ahsanullah University of Science and Technology (AUST) was founded by the Dhaka Ahsania Mission in 1995 as per permission accorded by the Ministry of Education, People's Republic of Bangladesh and the University Grants Commission, Bangladesh. The AUST is the only private University in Bangladesh which has received permanent charter from Bangladesh Government. The university aims to provide ambitious students with quality education to meet the needs of our society in the perspective of highly competitive and globalized world. Bachelor degree programs in eight disciplines are being conducted under three faculties – Faculty of Architecture and Planning, Faculty of Business and Social Science and Faculty of Engineering, while Master degree programs are being conducted under the Faculty of Engineering, the Faculty of Business and Social Science and the Faculty of Education. Degrees of the university are recognized by the Government, the Public Service Commission and employers at home and abroad. At present the university is acknowledged as one the leading private universities in Bangladesh. The spacious permanent campus of the university consisting of a picturesque 10-storied building with a total floor area of more than four lac square feet on five bighas of land is located in Tejgaon Industrial Area.

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

The Department of Electrical and Electronic Engineering (EEE) of AUST has been offering a four-year undergraduate degree program since the establishment of AUST in the year 1995. There are now 64 full-time faculty members including seven professors. Twelve of the faculty members have Ph. D. degree and more than twenty-five of them have M. Sc. Engineering degree. Seventeen faculty members are on leave for higher studies. In addition, there are Adjunct Faculty Members from Bangladesh University of Engineering and Technology (BUET).

The department established 14 laboratories with sophisticated equipment on its permanent campus. Laboratories are in areas of Electrical Circuits, Electronics, Digital Electronics, Electrical Machines, Telecommunications, Control Systems, Switchgear and Protection, Power Systems, Microwaves, Microprocessors, VLSI Design and Digital Signal Processing. The department favors interaction between University and industry and, in this connection, some of the activities of the department are: Study tour of students to industry, power stations and telecommunication centers etc. Graduates of the department have a very good record of employment in various public and private organizations.

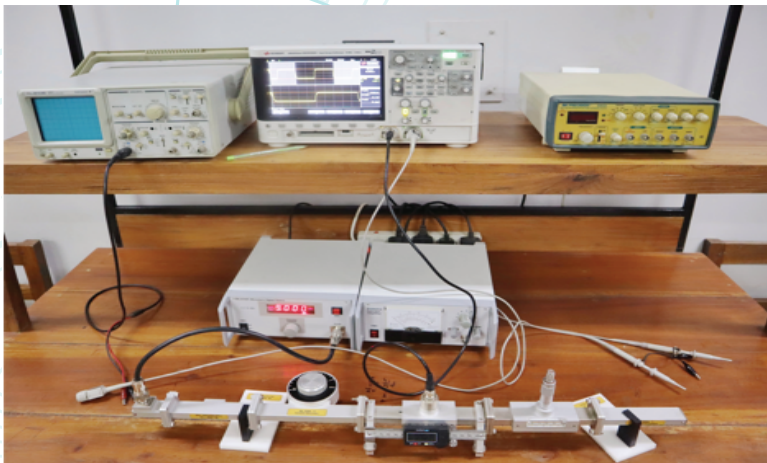
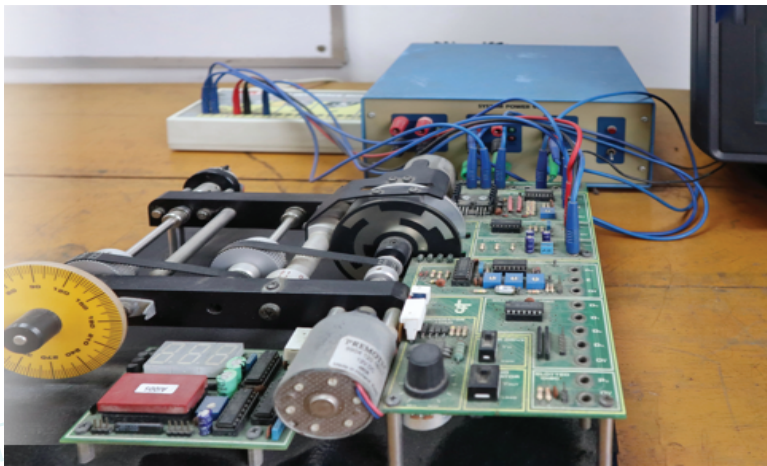


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POSTGRADUATE PROGRAM

The Department of Electrical & Electronic Engineering is offering postgraduate programs leading to the award of Master of Science in Electrical & Electronic Engineering (M.Sc. Engg.) and Master of Engineering in Electrical & Electronic Engineering (M.Engg.) since Spring 2015. In order to obtain a degree in Master of Science in Electrical & Electronic Engineering, a student must complete at least 18 credit hours of course work with a minimum CGPA of 2.65 and a thesis of 18 credit hours with a “satisfactory” grade. To obtain a degree in Master of Engineering in Electrical & Electronic Engineering, a student must complete at least 30 credit hours of course work with a minimum CGPA of 2.65 and a project of 6 credit hours with a “satisfactory” grade.





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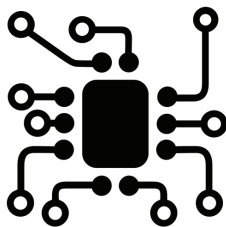
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RESEARCH AREAS



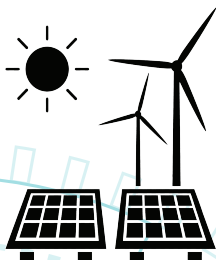
Communications:

- Cloud radio access network
- 5G/6G cellular networks
- Light wave propagation
- Photonic band gap filter
- Physical layer development of patch antenna
- Wireless communication systems



Electronics:

- Nano-electronics
- Solid State Devices
- VLSI
- Photonics
- Embedded Systems



Power System:

- Electric vehicle and Battery energy storage system
- Smart grid applications and communications
- Integration of Renewable energy resources into grid
- Advanced control of power system operation
- Design of special electrical machines and drives
- Application of advanced magnetic materials
- Controller design in power applications



Signal Processing:

- ANN, Deep Learning, Machine Learning
- Bangla speech and speaker recognition system
- Brain tumor detection and classification using anisotropic diffusion filter, SVM classifier and ANN
- Image processing
- Natural language processing



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ADMISSION REQUIREMENTS

For admission to the program leading to Masters Degree, a candidate must have a Minimum CGPA of 2.50 out of 4.0 in B.Sc. Engineering and must have a minimum GPA of 3.50 out of 5.0 in either SSC or HSC and must not have a GPA less than 2.00 in other examination.

COURSE REGISTRATION

Selected candidates have to fill up the Course Registration Form available from the department. A full-time student must register a minimum of 9 (nine) credit hours and a maximum of 12 (twelve) credit hours per semester. A part-time student should register for a minimum of 6 (six) and a maximum of 9 (nine) credit hours per semester. Total credits required for a post-graduate program is 36. Students of M. Sc. Engg. need to complete 18 credits of course work and 18 credits of thesis work. Students of M. Engg. need to complete 30 credits of course work and 6 credits of project work.



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Postgraduation admission Link:

<http://admission.aust.edu/pg/pg-admission>

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