

CHAIRMAN MESSAGE



Prof. Dr. Md. Mahabub Hossain

View Profile (<https://hstu.ac.bd/teacher/mahabub>)

The Department of Electronics and Communication Engineering (ECE) is one of the demanding and leading departments in Hajee Mohammad Danesh Science and Technology University (HSTU). The department has well equipped electronics and communication laboratories where the students can achieve and demonstrate their theoretical and experimental knowledge. The ECE department possesses knowledgeable and experienced teachers who are well noted in their respective fields of teaching and research. The responsibilities and dedication of our teachers lead the department towards an outstanding learning stage, where state of the art laboratories, libraries, access to knowledge resources; abundance of computers, extra-curricular activities and most importantly personal care are taken. Teachers and students of the department work in solving problems in the fields of ICT, renewable energy, optoelectronic devices, solid state devices and power electronics, signal and image processing, multimedia communications and networking, antenna designs, microwave engineering, optical fiber communications, broadband mobile communications, biomedical engineering, artificial systems, robotics and neural network, VLSI, and nanotechnology. Our teachers are involved in different research projects of HSTU and the ministries of Government of The People's Republic of Bangladesh. We always try to maintain a congenial environment among the students and the teachers. The department of ECE offers many opportunities to familiarize oneself with the intellectual World through lecture series, seminars, and competitions. We always try to keep our students up to date with the latest technical innovations that are happening right now in the field of information and communication technology. Students and teachers can demonstrate professional workshops, research, and cultural activities through the ECE club formed in the department. We regularly update our course curricula to keep pace with the demand of modern technology. Thus, our programs provide a thorough grounding in the fundamentals and advanced studies, which are leading to the undergraduate (B.Sc.), and the postgraduate (MS and PhD) degrees. The students of the department are very active, and they are reaching out to national and international competitions regularly. We honestly continue our endeavor to enhance the quality of the programs. Students of home and abroad are welcomed to be a part of ECE family, HSTU, Bangladesh.

Chairman, Department of Electronics and Communication Engineering.

VISSION & MISSION

VISSION

Enhancement of excellence in education and research in Electronics, Information and Communication arena to produce innovative and ethical engineers and researchers with research focus in national and global needs.

MISSION

1. Imparting quality education with ethical values to produce advanced graduates and professionals to overcome the domestic and global challenges.
2. Fostering culture of innovation, creation, and research by utilizing existing resources for the development of the society.
3. Enhancing knowledge by collaboration and research activities with academia and industry for reaching heights of excellence.

FACULTY MEMBER



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Course Curriculum for B.Sc. (Engineering) in ECE, effective from the semester Jan-Jun, 2017 Download 
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Course Curriculum for B.Sc. (Engineering) in ECE (new), effective from the semester Jan-Jun, 2018 Download 

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RESEARCH

| Sl No. | Thesis | Title | Year/Semester | Supervisor | File |
|--------|------------------------|---|---------------|--|--|
| 1. | M.Sc. (Engineering) | Improved Vehicle Detection: Unveiling the Potential of Modified YOLOV5 | 2023 Jan-Jun | Professor Dr. Md. Mahabub Hossain (https://hstu.ac.bd/teacher/mahabub) | Download (https://hstu.ac.bd/uploads/dpt-research/ece/2023tjj_1602141_MMHn1.pdf) |
| 2. | M.Sc. (Engineering) | Audio Steganography with Intensified Security and Hiding Capacity | 2023 Jan-Jun | Md. Selim Hossain, Lecturer (https://hstu.ac.bd/teacher/selim) | Download (https://hstu.ac.bd/uploads/dpt-research/ece/2023tjj_1602158_MSHn1.pdf) |
| 3. | M.Sc. (Engineering) | Chronic Kidney Disease Prediction using Ensemble Machine Learning | 2023 Jan-Jun | Professor Md. Mehedi Islam (https://hstu.ac.bd/teacher/mehedi) | Download (https://hstu.ac.bd/uploads/dpt-research/ece/2023tjj_2005107_MMIn2.pdf) |
| 4. | M.Sc. (Engineering) | Efficiency Improvement of SnS-Based Heterojunction Solar Cell using Cu ₂ O Hole Transport Layer | 2023 Jan-Jun | Professor Dr. Md. Mahabub Hossain (https://hstu.ac.bd/teacher/mahabub) | Download (https://hstu.ac.bd/uploads/dpt-research/ece/2023tjj_2005108_MMHn2.pdf) |
| 5. | M.Sc. (Engineering) | Underwater Active Noise Cancellation Combining Kalman Filter with Adaptive FxLMS | 2023 Jan-Jun | Professor Md. Mehedi Islam (https://hstu.ac.bd/teacher/mehedi) | Download (https://hstu.ac.bd/uploads/dpt-research/ece/2023tjj_2005111_MMIn1.pdf) |
| 6. | M.Sc. (Engineering) | Traffic Demand-based Grouping for Fairness among the RAW Groups of Heterogeneous Stations in IEEE 802.11ah IoT Networks | 2022 Jan-Jun | Md. Abubakar Siddik, Assistant Professor (https://hstu.ac.bd/teacher/abubakar) | Download (https://hstu.ac.bd/uploads/dpt-research/ece/2022tjj_1905484_ABSn1.pdf) |


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|----|------------------------|--|--------------|--|--|
| 7. | M.Sc. (Engineering) | Driver Drowsiness Detection System Based on Facemesh Machine Learning Solution | 2022 Jan-Jun | Professor Dr. Md. Mahabub Hossain, (https://hstu.ac.bd/teacher/mahabub) | Download (https://hstu.ac.bd/uploads/dpt-research/ece/2022tjj_2005109_MMHn1.pdf) |
| 8. | M.Sc. (Engineering) | Design of a Smart Automation System for Detection of Temperature and Humidity through a Developed Sensor System of Poultry Ventilation Process | 2022 Jan-Jun | Professor Dr. Md. Mahabub Hossain (https://hstu.ac.bd/teacher/mahabub) | Download (https://hstu.ac.bd/uploads/dpt-research/ece/2022tjj_2005110_MMHn2.pdf) |

NOTICE

16
Jun 2021

MS Admission Circular (https://hstu.ac.bd/page/single_notice/type/d/id/65)
 11:15 AM
[Read more \(https://hstu.ac.bd/page/single_notice/type/d/id/65\)](https://hstu.ac.bd/page/single_notice/type/d/id/65)

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Jan 2020

B.Sc. (Engineering) in ECE স্পেশাল রিপোর্ট পরীক্ষা/২০১৮ এর সময় সূচি (https://hstu.ac.bd/page/single_notice/type/d/id/45)
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(https://hstu.ac.bd/page/events_details_ece/id/9)

Welcome (https://hstu.ac.bd/page/events_details_ece/id/9)

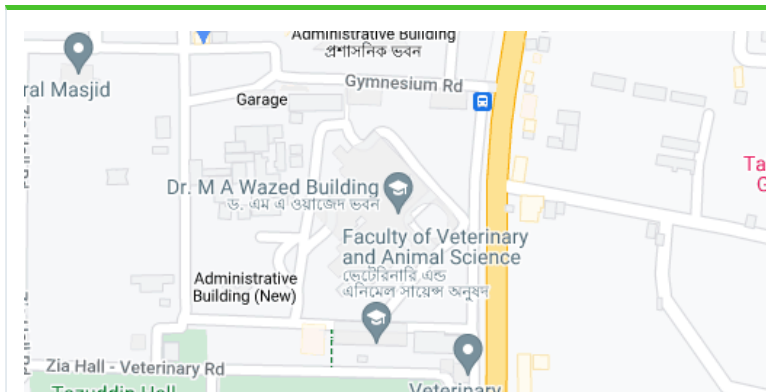
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THE UNIVERSITY

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