

Department of Electrical Engineering

0320 MS. Electrical Engineering

At postgraduate level the department of Electrical Engineering offers MS. Program in Electrical Engineering. The areas of active research include Electronic Devices and Materials, Intelligent Systems, Microelectronics and Computer Systems, Nano-Engineering, Photonics Systems, Systems and Control, Telecommunications and Signal Processing. This gives graduates an unparalleled advantage in both technical skills and intellectual discipline to become leaders in overcoming the challenges of modern technological advancements. The student can choose amongst one of the following specializations while pursuing his Master's in Electrical Engineering.

Communication and Electronic Engineering

The Master's degree courses are aimed at bringing the students abreast with the most recent developments in their fields of specialization. These courses are offered for both part-time and full-time students.

Shift : Afternoon

Duration : 2 years, 4 semesters, 30 credit hours

Eligibility : B.Sc. Electrical Engineering (4 years) or equivalent qualification with at least CGPA 2.50/4.00 or equivalent from any HEC recognized University and qualify University test.

1st Semester

Course	Course Title	Credit Hours
EE- 602	Stochastic Processes	3
EE- 603	Linear System Theory	3
EE-xxx	Elective I	3

2nd Semester

Course	Course Title	Credit Hours
EE-6xx	Advanced Electronics	3
EE-605	Advanced Wireless Communication	3
EE-xxx	Elective II	3

3rd Semester

Course	Course Title	Credit Hours
EE-xxx	Elective III	3
EE-699	Research Thesis	3

4th Semester

Course	Course Title	Credit Hours
EE-xxx	Elective IV	3
EE-699	Research Thesis	3

Power & Control Engineering

The Master's degree courses are aimed at bringing the students abreast with the most recent developments in their fields of specialization. These courses are offered for both part-time and full-time students.

1st Semester

Course	Course Title	Credit Hours
EE- 602	Stochastic Processes	3
EE- 603	Linear System Theory	3
EE-xxx	Elective I	3

2nd Semester

Course	Course Title	Credit Hours
EE-6xx	Advanced Power Generation	3
EE-610	Advanced Topics in Power Electronics	3
EE-xxx	Elective II	3

3rd Semester

Course	Course Title	Credit Hours
EE-xxx	Elective III	3
EE-699	Research Thesis	3

4th Semester

Course	Course Title	Credit Hours
EE-xxx	Elective IV	3
EE-699	Research Thesis	3

Elective Courses for Electrical Engineering:

Communication & Electronic Engineering:

Advance Digital Communication
Photovoltaic Energy and its Applications
Mobile and Wireless Networks
Advance Digital System Design

Power & Control Engineering:

Advance Topics in Electronics
Advance Power System and Control
Power System Stability and Control
High Voltage Engineering Insulation
Renewable Energy System