

0260 B.Sc. Electrical Engineering

Shift	: Morning
Duration	: 4 years, 8 semesters, 136 credit hours
Eligibility	: F.Sc. (Pre-Engineering) / DAE (Electrical) or equivalent with at least 60% marks from any recognized Board and Entrance Test conducted by Educational Testing & Evaluation \ Agency (ETEA)

1st Semester

Course	Course Title	Credit Hours
CSC-101(1)	Introduction to Computing	1
CSC-101(L)	Introduction to Computing	1
EE 103(L)	Workshop Practice	1
ENG-116	Functional English	3
HUM-101	Islamic Studies	2
MTS-122	Calculus & Analytical Geometry	3
PHY-102	Applied Physics	3
PHY-102(L)	Applied Physics	1

2nd Semester

Course	Course Title	Credit Hours
CSC-110(2)	Fundamentals of Programming	2
CSC-110(L)	Fundamentals of Programming	1
EE-101	Linear Circuit Analysis	3
EE-101(L)	Linear Circuit Analysis	1
ENG-101	Communication Skills	3
HUM-102	Pakistan Studies	2
MCE102(L)	Engineering Drawing	1
MTS-123	Linear Algebra & Differential Equation	3

3rd Semester

Course	Course Title	Credit Hours
CSC-201(3)	Digital Logic Design	3
CSC-201(L)	Digital Logic Design	1
CSC-216	Data Structure and Algorithms	3
CSC-216(L)	Data Structure and Algorithms	1
EE-204	Electrical Network Analysis	3
EE-204(L)	Electrical Network Analysis	1
EE-209	Electronic Devices & Circuits	3
EE-209(L)	Electronic Devices & Circuits	1
MTS-120	Multi Variable Calculus	3

4th Semester

Course	Course Title	Credit Hours
EE-302	Signals & Systems	3
EE-302(L)	Signals & Systems	1
EE-2xx	Breadth Core-I	3
EE-2xx(L)	Breadth Core-I	1
EE-216	Probability Methods for Engineers	3
MTS-2xx	IDEE-I (Thermodynamics)	3
MTS-305	Numerical Analysis	3

5th Semester

Course	Course Title	Credit Hours
EE-206	Electromagnetic Field Theory	3
EE-301	Electrical Machines	3
EE-301(L)	Electrical Machines	1
EE-304	Communication Systems	3
EE-304(L)	Communication Systems	1
HUM-108	Professional Ethics	3
MTS-xxx	IDEE-II (Introduction to Machatronics)	3

6th Semester

Course	Course Title	Credit Hours
EE-303	Microprocessor Based system	3
EE-303(L)	Microprocessor Based system	1
EE-404	Linear Control System	3
EE-404(L)	Linear Control System	1
EE-3xx	Breadth Core-II	3
EE-3xx(L)	Breadth Core-II	1
EE-3xx	Elective-I	3
EE-3xx(L)	Elective-I	1
ENG-102	Technical Report Writing	3

7th Semester

Course	Course Title	Credit Hours
EE-4XX	Elective-II	3
EE-4XX(L)	Elective-II	1
EE-4XX	Elective-III	3
EE-4XX(L)	Elective-III	1
EE-4XX	Elective-IV	3
EE-499	Project Phase - I	3
MGT-xxx	Entrepreneurship Skills	3

8th Semester

Course	Course Title	Credit Hours
EE-4XX	Elective-V	3
EE-4XX	Elective-VI	3
EE-4XX	Elective-VI	1
EE-499	Project Phase - II	3
HRM-302	Organizational Behavior	3
MGT-XXX	Economics & Project Management	3