



NEWPORTS INSTITUTE OF COMMUNICATIONS & ECONOMICS

BS Electrical Engineering Technology

Program Duration: 04 Year

Admission requirements

12 Year of education, F.Sc Pre Engineering/ DAE/ A-Level or equivalent with minimum 2nd Division.

Deficiency; “Students with premedical, must pass deficiency courses of Mathematics of 6 credit hours in first 2 semesters”.

Entry Test/Interview is mandatory.

INTRODUCTION

To ensure students are prepared with technical knowledge, logical critical thinking, analytical skills and lifelong learning methods, the undergraduate electrical engineering curriculum focuses on establishing a sound foundation in mathematics, physical sciences and computer programming. Electrical engineering is a wide knowledge of engineering that helps students to communicate and connect effectively with other engineers and technologists who have trained in various technical disciplines and to make confident decisions. The students will have the opportunity to learn, recognize concerns and formulate their proposals and implementations upon successful completion of the degree program.

CAREER PROSPECTS

Electrical engineers can enable students to pursue their career in Electrical Power, Power Systems, Telecommunication Industry, Design of Electrical Machines, Electronics and Communication engineering.

Scheme of Study

Road Map

Total semesters: 08

Total Credit Hours: 137

Semester I			Semester II		
S #	Course Name	CR	S #	Course Name	CR
1	Islamic Studies / Professional Ethics	2	1	Communication Skills	3
2	Applied Mathematics-I	3	2	Pakistan Studies	2
3	Applied Physics	3	3	Electronics	4
4	Linear Circuits Analysis	3	4	Basic Mechanical Technology	3



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5	Engineering Drawing	3		5	Applied Mathematics – II	3
6	Introduction to Computer Fundamentals	3		6	Electrical Machines – I	3
Total Credit Hours				Total Credit Hours		
Semester III				Semester IV		
S #	Course Name	CR		S #	Course Name	CR
1	Power Generation Systems	2		1	AC Circuits Analysis	4
2	Technical Report Writing	3		2	Electro-Magnetic Fields	2
3	Electrical Instruments and Measurements	4		3	Electrical Power Transmission	3
4	Electrical Machines – II	4		4	Electrical Power Distribution and Utilization	3
5	Digital Electronics	4		5	Power Electronics	4
Total Credit Hours				Total Credit Hours		
Semester V				Semester VI		
S #	Course Name	CR		S #	Course Name	CR
1	Micro-Processor Theory & Interfacing	3		1	Project Management	3
2	Switch Gear & Protective Devices	3		2	Power System Analysis	2
3	Communications Technology	4		3	Data & Computer Communication	4
4	Control Technology	3		4	Industrial Drives & PLC	4
5	Total Quality Management	2		5	Project	3
6	High Voltage Technology	3		6	Project (Continue)	3
Total Credit Hours				Total Credit Hours		
Semester VII				Semester VIII		
S #	Course Name	CR		S #	Course Name	CR
1	Supervised Industrial / Field Training	16		1	Supervised Industrial / Field Training	16
Total Credit Hours				Total Credit Hours		
16				16		