



NEWPORTS INSTITUTE OF COMMUNICATIONS & ECONOMICS

BS Electronics 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

This curriculum seeks to produce critical, creative and high-quality graduates with high technical skills, as well as skills in decision making and problem solving that have been built and polished. Students may option to go to Analog & Digital Electronics areas such as Mechatronics, Communication and Signal Processing, and Embedded Systems. Recently, Internet of Communication Things (IoCT) has been an emerging trend in electronics technology which deals with the real professional problems.

CAREER PROSPECTS

The major employment areas include electronics engineering, CAD technician, design engineer, marine industry, automotive 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	3	1	Pakistan Studies	3
2	Applied Mathematics – I	2	2	Applied Mathematics- II	3
3	Applied Physics	3	3	Electrical Technology – I	3



NEWPORTS INSTITUTE OF COMMUNICATIONS & ECONOMICS

4	Introduction to Computer Fundamentals	3		4	Digital Logic Technology	3
5	Electronics Workshop Practice	3		5	Computer Programming	2
6	Electrical Circuit Analysis	3		6	PCB Design and Fabrication workshop	3
Total Credit Hours		17		Total Credit Hours		17
Semester III				Semester IV		
S #	Course Name	CR		S #	Course Name	CR
1	Electrical Technology – II	4		1	Technical Report Writing	3
2	Electronic Devices & Technology	4		2	Communication Systems and Techniques	4
3	Communication Skills	3		3	Control Technology	3
4	Microprocessors	3		4	Electromagnetic Field Theory	2
5	Instrumentation & Measurement	4		5	Amplifier & Oscillators	3
Total Credit Hours		18		Total Credit Hours		18
Semester V				Semester VI		
S #	Course Name	CR		S #	Course Name	CR
1	Industrial Drives	4		1	Industrial Automation and Robotics	3
2	VLSI Technology	4		2	FPGA Based Systems	3
3	Applied Antenna & wave Propagation	4		3	Communication Networks	3
4	Industrial Electronics Applications	3		4	Project Management	3
5	Renewable Energy Technology	3		5	Project	2
Total Credit Hours		18		Total Credit Hours		17
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		16		Total Credit Hours		16