

Department of Energy Engineering Technology

BACHELOR OF ENERGY ENGINEERING TECHNOLOGY

Shift : Morning

Duration : 4 years, 8 semesters, minimum degree requirements 130+ credit hours

Eligibility : FSc in Pre-Engg./Any other equivalent examination / DAE (Electrical/ Electronics/ Mechatronics / Instrumentation) or its equivalent with a minimum of 50% marks from any recognized Board

1st Semester

Course	Course Title	Credit Hours
ENH-111	Islamic Studies / Professional Ethics	2 + 0
ENS-111	Applied Mathematics-I	3 + 0
ENS-112	Applied Physics	2 + 1
ENT-111	Introduction to Computer Fundamentals	1 + 2
ENS-113	Applied Chemistry	2 + 1
ENT-112	Engineering Drawings	1 + 2

2nd Semester

Course	Course Title	Credit Hours
ENH-121	Communication Skills	3 + 0
ENS-121	Applied Mathematics-II	3 + 0
ENT-121	Intro to Energy Engineering Technology	3 + 0
ENH-122	Pakistan Studies	2 + 0
ENT-122	Computer Programming	2 + 1
ENT-123	Workshop Practice	0 + 3

3rd Semester

Course	Course Title	Credit Hours
ENT-231	Introduction to Occupational Safety, Health, Environment	2+ 1
ENT-232	Fuel Technology-I	2+ 1
ENT-233	Introduction to Engineering Materials	2+ 0
ENT-234	Energy Instrumentation & Measurement	2+ 1
ENT-235	Power Electronics	2+ 1
ENT-236	Fundamental of Electrical Technology	2+ 1

4th Semester

Course	Course Title	Credit Hours
ENH-241	Technical Report Writing	3+0
ENT-241	Electrical Power Transmission and Distribution	2+1
ENT-242	Electrical Machines	2+1
ENT-243	Power System Analysis and Control	2+1
ENT-244	Applied Thermodynamics	1+2
ENT-245	Fuel Technology-II	2+1

5th Semester

Course	Course Title	Credit Hours
ENM-351	Project Management	3+ 0
ENT-351	Solar Thermal Systems	1+ 1
ENT-352	Wind Turbines Technology	2+ 1
ENT-353	Geothermal Systems and Biomass	2+ 1
ENT-354	Power Protection and Maintenance	1+ 2
ENT-354	Energy Audit and Management	2+ 1

6th Semester

Course	Course Title	Credit Hours
ENT-361	Photovoltaics	2+ 1
ENT-362	Power Quality	2 + 1
ENT-363	Fluid Dynamics & Hydrodynamic Machinery	2 + 1
ENT-364	Computer Integrated Manufacturing	2 + 1
ENT-365	Project	0 + 6

7th Semester

Course	Course Title	Credit Hours
ENT-481	16 Weeks Supervised Industrial / Field Training (8x5=40Hrs / Week)	0 + 16

8th Semester

Course	Course Title	Credit Hours
Et4216	16 Weeks Supervised Industrial / Field Training (8x5=40Hrs / Week)	0 + 16