

DEPARTMENT OF ENGINEERING TECHNOLOGY

Candidates who have passed G. C. E. Advanced Level (A/L) following subjects of Science for Technology and Engineering Technology are eligible to follow the degree programme of **Bachelor of Engineering Technology** in the Department of Engineering Technology.

The Department of Engineering Technology is focused to produce professionals who could apply engineering principles to the work environment using quality tools and data to solve broadly-defined engineering technology problems. The curriculum of the Department of Engineering Technology consists with sequence of courses that help to understand fundamental of science as well as extensive set of related practical activities which suitable to develop engineer or technician with science knowledge and scientist/researchers with knowledge of technology.

Year I				
Semester I – A student must earn a minimum of 16 credits				
Course Code	Course Title	No. of Credits	Prerequisites	Compulsory /Optional
ET 11201	Introductions to Electricity and Magnetism	2		Compulsory
ET 11102	AC Theory & Circuits	1		Compulsory
ET 11203	Electrical Engineering	2		Compulsory
ET 11204	Engineering Design	2		Compulsory
ET 11105	Semi-Conductor Physics	1		Compulsory
ET 11206	Fundamentals of Statistics and Introduction to Statistical Software	2		Compulsory
ET 11207	Fundamental Physics	2		Compulsory
ET 11208	Mathematical Fundamentals	2		Compulsory
ET 11109	Laboratory Practical	1		Compulsory
ET 11110	Computer Practical	1		Compulsory
	Total	16		
Semester II – A student must earn a minimum of 16 credits				
ET 12201	Magnetic Properties of Materials	2	ET 11201/7	Compulsory
ET 12202	Electronics	2	ET 11105 ET 11207	Compulsory
ET 12103	Dielectric Properties of Materials	1	ET 11201/7	Compulsory
ET 12104	Electrical Measurements	1	ET 11201/3	Compulsory
ET 12205	Introduction to Electrical Machines	2	ET 11203	Compulsory
ET 12206	Advanced Statistics I	2	ET 11206	Compulsory
ET 12207	Mathematical Methods	2	ET 11208	Compulsory
ET 11208	Calculus and Differential Equations	2	ET 11208	Compulsory
ET 12109	Laboratory Practical	1		Compulsory
ET 12110	Computer Practical	1		Compulsory
	Total	16		
Year II				
Semester I – A student must earn a minimum of 16 credits				
ET 21201	Introduction to Power Systems	2	ET 11201/3 ET 11102	Compulsory
ET 21202	Dielectric and Magnetic Properties of Materials	2	ET 11201 ET 12201 ET 12103	Compulsory
ET 21203	Electrical Machines	2	ET 12104 ET 12205	Compulsory

ET 21204	Acoustical Engineering	2	ET 11207	Compulsory
ET 21205	Fluid Mechanics	2	ET 12207	Compulsory
ET 21206	Advanced Statistics II	2	ET 11206	Compulsory
ET 21207	Mathematical Programming	2	ET 11208 ET 12207	Compulsory
ET 21108	Laboratory Practical	1		Compulsory
ET 21109	Computer Practical	1		Compulsory
	Total	16		
Semester II – A student must earn a minimum of 16 credits				
ET 22201	Applied Electricity	2	ET 12205	Compulsory
ET 22202	Thermodynamics	2	ET 11207	Compulsory
ET 22203	Mechanics of Deformable Bodies	2	ET 11207	Compulsory
ET 22204	Computer Graphics and Solid Modelling	2		Compulsory
ET 22205	Fluid Machinery	2	ET 21205	Compulsory
ET 22206	Engineering Thermodynamics	2		Compulsory
ET 22207	Mathematics	2	ET 11208	Compulsory
ET 22108	Laboratory Practical	1		Compulsory
ET 22109	Computer Practical	1		Compulsory
	Total	16		
Year III				
Semester I – A student must earn a minimum of 16 credits				
ET 31201	Measurements and Instrumentation	2		Compulsory
ET 31202	Material Science and Technology	2		
ET 31203	Manufacturing Technology I	2		Compulsory
ET 31204	Heat Transfer	2	ET 22202 ET 22206	Compulsory
ET 31205	Manufacturing Technology II	2	ET 21204 ET 22205	Compulsory
ET 31206	Environmental Management	2		Compulsory
ET 31207	Energy Conversion and Management	2		Compulsory
ET 31108	Laboratory Practical I	1		Compulsory
ET 31109	Laboratory Practical II	1		Compulsory
ET 31010	Industrial Visit I	0		Compulsory
	Total	16		
Semester II – A student must earn a minimum of 16 credits				
ET 32201	Design of Machine Elements	2	ET 31205	Compulsory
ET 32202	Design of Mechanical Systems	2	ET 31205	Compulsory
ET 32203	Analysis and Synthesis of Linkages and Machines	2	ET 31205	Compulsory
ET 32204	Internal Combustion (IC) Engine and Steam Turbine	2		Compulsory
ET32205	Automotive Petrol Engines	2	ET 31205	Compulsory
ET32206	Dynamics of Machines	2	ET 22205 ET 31202	Compulsory
ET 32207	Vehicle Faults Diagnosis I	2	ET 31203 ET 31205	Compulsory
ET 32108	Laboratory Practical I	1		Compulsory
ET 32109	Laboratory Practical II	1		Compulsory
ET 32010	Industrial Visit II	0		Compulsory
	Total	16		
Year IV				
Semester I – A student must earn a minimum of 16 credits				
ET 41201	Automation Computer Numerical Control (CNC) Mechanics & Robotics	2	ET 22204 ET 31205 ET 32201/2/3 ET 32206	Optional
ET 41202	Mechatronics and Modern Control	2	ET 12202 ET 21207	Optional

			ET 22204	
ET 41203	Automotive Diesel Engines	2	ET 32204/5	Optional
ET 41204	Power Unit and Transmission	2	ET 22205 ET 32201/2/3 ET 32206	Optional
ET 41205	Automotive Chassis	2		
ET 41206	Vehicle Body Engineering	2		Optional
ET 41207	Automotive Electrical Systems and Electronics	2		
ET 41208	Vehicle Faults Diagnosis II	2	ET 32207	Optional
ET 41209	Advanced Manufacturing Technology	2	ET 31203	Optional
ET 41110	Human Resource Management	2		Optional
ET 41211	Ethics in Engineering Profession	2		Compulsory
ET 41212	Scientific Writing & Communication Skills	2		Compulsory
ET 41113	Laboratory Practical I	1		Compulsory
ET 41114	Laboratory Practical II	1		Compulsory
	Total	26		
Semester II – A student must earn a minimum of 08 credits				
ET 42801	Project Work: B.Sc. Thesis Engineering Technology	8		Compulsory
	Total	08		