Course Structure Level I Semester I

Engineering Science and Design	Credits	Mathematics, Basic Science & Computing	Credits	Complementary Studies	Credits
ENT1111: Workshop Technology I	1 (P)	TMS1113: Foundation of Mathematics	3 (T)	ENG1110: English I (teaching -	NC
	(45h)			4-hours per week)	
ENT1121: Foundation For	1 (P)	TMS1122: Chemistry of Materials	2 (T)		
Technology	(45h)				
		TMS1132: Computer Fundamentals and PC	2 (T+P)		
		Applications			
		TMS1143: Physics of Mechanical Systems	3 (T)		
		TMS1152: Applied Calculus	2 (T)		
		TMS1161: Common Practical I	1 (P)		
		(Mechanical systems)(physics)	(45h)		
	02		13		00
Level I Sem. I Total credits (Additional hours given for English)					

Level I Semester II

Engineering Science and Design	Credits	Mathematics, Basic Science &	Credits	Multidisciplinary	Credits
		Computing			
ENT1213: Engineering Properties of Matter	3 (T)	TMS1212: Introduction to Ordinary	2 (T)	ENG1210: English II (teaching	NC
		Differential Equations		2-hours per week)	
ENT1222: Electricity and Magnetism	2 (T)	TMS1223: Computer Programming	3		
, ,		Techniques	(T+P)		
ENT1232: Introduction to Electronics	2 (T+P)				
ENT1241: Common Practical I	1 (P)				
(Engineering properties of matter)	(45h)				
ENT1251: Common Practical II	1 (P)				
(Electricity and Magnetism)	(45h)				
ENT1261: Workshop Technology II	1 (P)				
	(45h)				
	10		05		00
Level I Sem. II Total credits					

Level II Semester I

Engineering Science and Design	Credits	Mathematics, Basic Science &	Credits	Complementary Studies	Credits
		Computing			
ENT2113: Analogue Electronic Systems	03	TMS2112: Applied Numerical Methods	02	TCS2112: Business Economics	02 (T)
	(T2+P1)	with MATLAB			
ENT2122: Electrical/Electronic and	02			TCS2122: Soft Skills	02
Mechanical Equipment Maintenance	(T1+P1)				(1T+1P)
ENT2132:Computer Hardware and Network	02			ENG2110: English III (teaching	NC
Maintenance	(T1+P1)			2-hours per week)	
ENT2142: Technical Drawing & Computer	02			•	
Aided Drafting	(T+P)				
ENT2152: Object Oriented Programming	02				
	(T1+P1)				
	11		02		04
Level II Sem. I Total credits					

Level II Semester II

Engineering Science and Design	Credits	Mathematics, Basic Science &	Credits	Complementary Studies	Credits
		Computing			
ENT2211: Computer Laboratory on	1 (P)	TMS2213: Probability and Statistics	03	TCS2212: Fundamentals of	02
Operating Systems				Management	
ENT2223: Digital Electronic Systems	03 (T+P)			TCS2221: Ethics for Technologists	01
ENT2232: Circuit Analysis & Faults	02 (T+P)			ENG2210: English IV (teaching 2-	NC
Diagnosis				hours per week)	
ENT2242: Basic Automobile Technology	02				
ENT2252: Instrumentation and Calibration	02 (T+P)				
ENT2261:Workshop Technology III	1 (P)				
	11		03		03
				Level II Sem. II Total credits	17

Level III Semester I

Engineering Science and Design	Credits	Mathematics, Basic Science &	Credits	Complementary Studies	Credits
		Computing			
ENT3112:Properties of Materials and	02	TMS3112: Basic Environmental	02 (T)	TCS3111: Safety and Risk	01
Their Applications		Science		Management	
ENT3122: Renewable and Alternative	02			TCS3122: Accounting for	02
Energy Technology				Technologists	
ENT3132: Electrical Power Systems	02			TCS3131: Art and Tradition	01
ENT3142: Introduction to Robotics	02			ENG3110: English V	NC
				(Teaching 2-hours per week)	
ENT3151: Common Practical III(Power	01 (P)				
systems)					
ENT3161: Common Practical	01 (P)				
IV(Properties of materials + renewable					
energy)					
ENT3171: Common Practical V(Robotics)	01 (P)				
	11		02		04
Level III Semester I - Total credits					

Level III Semester II has to be released for Industrial Training

After Level III Semester I Examination to the beginning of Level IV academic year

Engineering Science and Design	Credits
ENT3216: Industrial Training	06
(6-month period)	
Total credits	06

Level IV Semester I

Engineering Science and Design	Credits	Mathematics, Basic	Credits	Complementary Studies	Credits
		Science & Computing			
ENT4112: Welding Techniques	02				
ENT4122: Introduction to	02			TCS4111: Communication for	01
Mechatronics				Technologists	
ENT4132: Nanotechnology	02			TCS4122: Creativity, Innovation	02
				& Entrepreneurship	
ENT4142: Bio Medical Equipment	02			TCS4131: Industrial Sociology	01
ENT4152: Refrigeration & Air	02				
Conditioning					
ENT4161: Common Practical VI	01 (P)				
ENT4171: Common Practical VII	01 (P)				
ENT4181: Common Practical VIII	01 (P)				
ENT4090: Design Project	**				
	13				04
				Level IV Semester I Total	17

^{**} Continue in the next semester (ENT4090) - second 0 means both semesters

Level IV Semester II

Engineering Science and Design	Credits	Mathematics, Basic	Credits	Complementary Studies	Credits
		Science &			
		Computing			
ENT4212: Nautical Technology	02			TCS4211: Human Resources	01
				Management	
ENT4222: Hydraulic pumps and	02			TCS4222: Operations	02
Machines				Management for Technologist	
ENT4232: Polymer Materials	02				
ENT4242: Marine Technology	02				
ENT4252: Hybrid Systems	02				
ENT4261: Common practical IX	01				
ENT4271: Common practical X	01				
ENT4083: Design project	03				
	15				03
Level IV Semester II Total	·		•		18
Total for each section	72+06		24		18
TOTAL CREDITS FOR THE DEGREE					122