

Revised Curriculum-BET Hons- University of Ruhuna

Semester-wise Breakdown

Level 1 Semester I					
Module Code	Subject	Credit	GPA	NGPA	TGPA
TMS1113	Foundation of Mathematics	3	3		
TMS1122	Chemistry of Materials	2	2		
TMS1133	Physics of Mechanical System	3	3		
TMS1141	Physics of Mechanical System Laboratory	1	1		
TMS1152	Applied Calculus I	2	2		
ENT1111	Basic Manufacturing Technology	1	1		
TCS1112	Soft skills	2	2		
TCS1122	Active citizenship	2	2		
ENG1112	Language Skill Enhancement I	2		2	
			16	2	18

Level 1 Semester II					
Module Code	Subject	Credit	GPA	NGPA	TGPA
TMS1213	Applied Calculus II	3	3		
TMS1222	Electromagnetics	2	2		
TMS1231	Electromagnetics Laboratory	1	1		
TMS1242	Computer Programming Techniques	2	2		
TMS1253	Engineering Properties of Matter	3	3		
TMS1261	Engineering Properties of Matter Laboratory	1	1		
ENT1212	Advance Manufacturing Technology	2	2		
TCS1212	Fundamental of Management	2	2		
ENG1212	Language Skill Enhancement II	2		2	
			16	2	18

Level 2 Semester I					
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Module Code	Subject	Credit	GPA	NGPA	TGPA
TMS2112	Linear Algebra	2	2		
ENT2112	Technical Drawing and Computer Aided Drafting	2	2		
ENT2122	Thermodynamics	2	2		
ENT2132	Electrical Power Systems	2	2		
ENT2143	Analog Electronics and Laboratory	3	3		
ENT2152	Properties of Materials and Applications.	2	2		
ENT2162	Object Oriented Programming	2	2		
TCS2112	Business Economics	2	2		
			17		17

Level 2 Semester II					
Module Code	Subject	Credit	GPA	NGPA	TGPA
TMS2213	Discrete Mathematics	3	3	3	
TMS2222	Differential Equations	2	2		
ENT2212	Mechanics of Machines	2	2		
ENT2223	Digital Electronics and Laboratory	3	3		
ENT2232	Electrical machines and drives	2	2		
ENT2242	Automobile Technology	2	2		
ENT2252	Environmental Technology	2	2		
TCS2212	Accounting for Technologists	2	2		
			18		18

Level 3 Semester I					
Module Code	Subject	Credit	GPA	NGPA	TGPA
TMS3112	Numerical Methods	2	2		
TMS3122	Probability and Statistics	2	2		
ENT3112	Machine Design	2	2		
ENT3122	Control System Engineering	2	2		
ENT3132	Introduction to Robotics	2	2		
ENT3141	Computer Aided Design and Manufacturing	1	1		
ENT3153	Artificial Intelligence for Technologists	3	3		
TCS3111	Safety and Risk Management	1	1		
TCS3121	Ethics for Technologists	1	1		
			16		16

Level 3 Semester II					
Module Code	Subject	Credit	GPA	NGPA	TGPA
ENT3216	Industrial Training	6		6	
					6

Level 4 Semester I					
Module Code	Subject	Credit	GPA	NGPA	TGPA
ENT4112	Industrial Automation and Control	2	2		
ENT4122	Fluid Dynamics and Machinery	2	2		
ENT4132	Renewable and Alternative Energy Technology	2	2		
ENT4142	Instrumentation, Calibration and measurement	2	2		
ENT4152	Bio Medical Equipment*	2	2		
ENT4162	Polymer Technology*	2	2		
ENT4070	Research and Design project**	--	--		
TCS4112	Creativity, Innovation & Entrepreneurship	2	2		
TCS4121	Human Resources Management	1	1		
TCS4132	Operations Management for Technologist	2	2		
			15		15

Level 4 Semester II					
Module Code	Subject	Credit	GPA	NGPA	TGPA
ENT4212	Programable Digital Electronics	2	2		
ENT4222	Power electronics and applications	2	2		
ENT4232	Industrial Engineering	2	2		
ENT4242	Nano Technology	2	2		
ENT4252	Refrigeration and Air conditioning	2	2		
ENT4068	Research and Design Project	8	8		
ENT4272	Mechatronic Systems design	2	2		
			20		20

***Students get a choice of selecting one of these course units.**

**** Continue in the next semester**