

Module Code	Module Name	Category	Lectures hrs/ week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)		
					GPA	NGPA	GPA	NGPA	CA	WE	
Semester 1											
MA 1013	Mathematics	C	3	1/1	3.0				20	80	
CS 1032	Programming Fundamentals	C	2	3/1	3.0				20	80	
ME 1032	Mechanics	C	2	3/4	2.0				20	80	
MT 1022	Properties of Materials	C	2	3/4	2.0				20	80	
CE 1022	Fluid Mechanics	C	2	3/4	2.0				20	80	
EE 1012	Electrical Engineering	C	2	3/4	2.0				20	80	
EL 1012	Language Skill Enhancement I	C	-	3/1	1.0				20	80	
MN 1012	Engineering in Context	C	1	-		1.0	15.0	1.0	30	70	
Total for Semester 1								15.0	1.0		
Semester 2											
MT 1030	Crystallography & Phase Transformations	C	1.5	3/2	2.0				40	60	
MT 1063	Polymer Science	C	1.5	3/2	2.0				40	60	
MT 1952	Engineering Design	C	0.5	3/1		1.5			100	0	
MT 1962	Engineering Skill Development	C	0.5	3/1		1.5			100	0	
EN 1802	Basic Electronics	C	2	3/4	2.0				30	70	
ME 1090	Engineering Drawing and Computer Aided Modelling	C	2	3/1	3.0				100	0	
CS 2812	Visual Programming	C	1	3/1	2.0				60	40	
MA 1023	Method of Mathematics	C	3	1/1	3.0				30	70	
EL 1022	Language Skill Enhancement II	C	-		1.0				30	70	
ME 1100	Mechanics of Materials I	C	1.5	3/2	2.0		17.0	3.0	30	70	
DE 2XXX	Humanities Elective-I	E	1.5	3/2	2.0		2.0	0.0			
MN 1030	Entrepreneurship Skill Development (Continuing)	O	0.5	3/2		1.0			70	30	
Total for Semester 2								19.0	3.0		

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Semester 3											
MT 2170	Ceramic Science & Technology	C	3.5	3/2	4.0				40	60	
MT 2052	Communication Skills	C	1.5	3/2	2.0				100	0	
MT 2160	Introduction to Metals & Alloys	C	1.5	3/2	2.0				40	60	
MT 2190	Principles of Materials Science & Engineering	C	1.5	3/2	2.0				40	60	
MT 2153	Polymer Technology	C	1.5	3/2	2.0				40	60	
ME 1822	Basic Engineering Thermodynamics	C	1.5	3/2	2.0				30	70	
MA 2013	Differential Equations	C	2	-	2.0				30	70	
MA 2023	Calculus	C	2	-	2.0				30	70	
EE 2803	Applied Electricity	C	1.5	3/2	2.0			22.0	0.0	30	70
EN 2852	Applied Electronics	C	1.5	3/2	2.0				40	60	
MN 1030	Entrepreneurship Skill Development	O	0.5	3/2		1.0			70	30	
Total for Semester 3								22.0	0.0		
Semester 4											
MT 2033	Degradation of Materials	C	1.5	3/2	2.0				40	60	
MT 2073	Metal Forming and Machining	C	1.5	3/2	2.0				40	60	
MT 2180	Solid State Materials	C	3.5	3/2	4.0				40	60	
MA 2033	Linear Algebra	C	2	-	2.0				30	70	
MA 3013	Applied Statistics	C	2	-	2.0				30	70	
ME 2832	Mechanics of Machines	C	1.5	3/2	2.0				30	70	
ME 2060	Mechanics of Materials II	C	3.5	3/2	4.0				30	70	
ME 2850	Fundamentals of Machine Element Design	C	2	3/1	3.0			21.0	0.0	40	60
MN 2010	Entrepreneurial Leadership	O	1.5	3/2	2.0				50	50	
Total for Semester 4								21.0	0.0		

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Semester 5										
MT 3053	Characterization of Materials	C	2.5	3/2	3.0		13.0	1.0	40	60
MT 3093	Polymer Engineering	C	2.5	3/2	3.0				40	60
MT 3902	Industrial Visits I	C	-	-		1.0			100	0
ME 3812	Machine Design	C	1	3/1	2.0				30	70
MA 3023	Numerical Methods	C	2	-	2.0				30	70
MN 3042	Business Economics and Financial Accounting	C	3	-	3.0				30	70
MT 3083	Latex Science and Technology	E	2.5	3/2	3.0				40	60
MT 3213	Metal Casting and Powder Metallurgy	E	1.5	3/2	2.0				40	60
MT 3243	Joining of Materials	E	1.5	3/2	2.0				40	60
MT 3300	Electronic and Optical Device Engineering	E	2.5	3/2	3.0				40	60
MT 4723	Construction Materials	E	1.5	3/2	2.0		40	60		
ME 3012	Control Systems and Instrumentation	E	3.5	3/2	4.0		30	70		
MN 3052	Industrial Management & Marketing	E	2.5	3/2	3.0		7.0	0.0	30	70
MN 3010	Multidisciplinary Design, Innovation and Venture Creation	O	1.5	3/2	2.0				50	50
Total for Semester 5							20.0	1.0		
Training Semester										
MT 3992	Industrial Training	C	-	-		6.0	0.0	6.0	100	0
Total for Training Semester								6.0		

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Semester 6										
DE 2xx2	Humanities Elective-II	E(C)			2.0					
MT 4333	Heat Treatments and Strengthening Mechanisms of Metals	C	2.5	3/2	3.0				40	60
MT 4203	Research Project (Continuing)	C	-		1.0				100	0
MT 4902	Industrial Visits-II	C	-	-		2.0	6.0	2.0	100	0
MT 3713	Extraction of Metals	E	1.5	3/2	2.0				40	60
MT 4343	Cleaner Production	E	1.5	3/2	2.0		2.0	0.0	40	60
<i>Total for Semester 6</i>							8.0	2.0		

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					GPA	NGPA	GPA	NGPA	CA	WE		
Semester 7												
MT 4023	Total Quality Management	C	1.5	3/2	2.0		10.0	0.0	40	60		
MT 4033	Optical and Electron Microscopy	C	1.5	3/2	2.0				40	60		
MT 4053	Mechanical Behaviour of Materials	C	1.5	3/2	2.0				40	60		
MT 4203	Research Project (Continuing)	C	-		4.0				100	0		
MT 4063	Industrial Polymer Process Engineering	E	2.5	3/2	3.0				40	60		
MT 4073	Design & Fabrication of Polymer Products	E	2.5	3/2	3.0				40	60		
MT 4283	Nano Materials	E	1.5	3/2	2.0				40	60		
MT 4750	Ferrous and Non Ferrous Alloys	E	2.5	3/2	3.0				40	60		
MT 4760	Electro Ceramics	E	2.5	3/2	3.0				40	60		
MT 4743	Composites	E	1.5	3/2	2.0				40	60		
MN 4132	Consumer & Industrial Marketing	E	2	-	2.0		30	70				
MN 4022	Engineering Economics	E	2	-	2.0		30	70				
MN 4122	Human Resource Management and Industrial Relations	E	2	-	2.0		30	70				
MN 3020	Entrepreneurship Business Basics	E	2	3/1	3.0		7.0	0.0	50	50		
Total for Semester 7									17.0	0.0		

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					GPA	NGPA	GPA	NGPA	CA	WE
Semester 8										
MT 4203	Research Project	C	-		3.0				100	0
MT 4113	Selection of Materials, Failure Analysis and Non Destructive Testing	C	2.5	3/2	3.0				40	60
MN 4042	Technology Management	C	2	-	2.0				30	70
MN 4900	Professional Ethics	C	1	-	-	1.0	8.0	1.0	30	70
MT 4083	Dies and Moulds for Polymer Processing	E	2.5	3/2	3.0				40	60
MT 4093	Polymer Process Control and Instrumentation	E	2.5	3/2	3.0				40	60
MT 4713	Refractories & Kiln Technology	E	1.5	3/2	2.0				40	60
MT 4740	Smart Materials and Devices	E	2.5	3/2	3.0				40	60
MT 3310	Magnetism & Magnetic Materials for Device Engineering	E	2.5	3/2	3.0				40	60
MT 4773	Paint Technology	E	1.5	3/2	2.0				40	60
MN 4010	Business Plan Development	E	1.5	3/2	2.0				30	70
MA 4022	Operational Research	E	3	-	3.0				30	70
MN 4072	Small Business Management & Entrepreneurship	E	2	-	2.0		7.0	0.0	30	70
Total for Semester 8							15.0	1.0		
Total credits for the Programme							137	14		