

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 1953	Fundamentals of Engineering Design	C	1.0	3/1		2.0			100	0	
MT 1963	Engineering Skill Development	C	-	3/1		1.0			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	-	3/1	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(C)	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		

Module Code	Module Name	Category	Lectures hrs/ week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)		
					GPA	NGPA	GPA	NGPA	CA	WE	
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				30	70	
EN 2852	Applied Electronics	C	1.5	3/2	2.0			22.0	0.0	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 2034	Degradation of Materials	C	1.5	3/2	2.0				40	60	
MT 2074	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	
MT 2210	Mechanical Behavior of Materials	C	2.5	3/2	3.0				30	70	
ME 2850	Fundamentals of Machine Element Design	C	2	3/1	3.0			20.0	0.0	40	60
MN 2010	Entrepreneurial Leadership	O	1.5	3/2	2.0				50	50	
Total for Semester 4								20.0	0.0		

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 5										
MT 3053	Characterization of Materials	C	2.5	3/2	3.0		13.0	1.0	40	60
MT 3094	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
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		30	70		
MT 3330	Construction Materials	E	1.5	3/2	2.0		7.0	0.0	40	60
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		

Module Code	Module Name	Category	Lectures hrs/ week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 6										
DE 2xx2	Humanities Elective-II	E(C)	3.0	6/2	2.0					
MT 4904	Industrial Visits-II	C	-	-		1.0	5.0	1.0	100	0
MT 4114	Selection of Materials, Failure Analysis and Non Destructive Testing	C	5.0	6/2	3.0				40	60
MT 3713	Extraction of Metals	E	3.0	6/2	2.0		2.0	0.0	40	60
MT 3340	Paint Technology	E	3.0	6/2	2.0				40	60
Total for Semester 6							7.0	1.0		

Module Code	Module Name	Category	Lectures hrs/ week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 7										
MT 4023	Total Quality Management	C	1.5	3/2	2.0		12.0	0.0	40	60
MT 4033	Optical and Electron Microscopy	C	1.5	3/2	2.0				40	60
MT 3200	Comprehensive Design Project	C	-	-	4.0				100	0
MT 4203	Research Project (Continuing)	C	-	-	4.0				100	0
MT 4063	Industrial Polymer Process Engineering	E	2.5	3/2	3.0		6.0	0.0	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 4760	Electro Ceramics	E	2.5	3/2	3.0				40	60
MT 4743	Composites	E	1.5	3/2	2.0				40	60
MT 4400	Magnetism & Magnetic Materials for Device Engineering	E	2.5	3/2	3.0				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				50	50
Total for Semester 7							18.0	0.0		

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 8										
MT 4203	Research Project	C	-	-	3.0				100	0
MT 4334	Heat treatment and Strengthening Mechanisms of Metals	C	2.5	3/2	3.0				40	60
MT 4120	Cleaner Production	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	11.0	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 4780	Smart Materials and Devices	E	2.5	3/2	3.0				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				30	70
MT 4750	Ferrous and Non Ferrous Alloys	E	2.5	3/2	3.0		6.0	0.0	40	60
Total for Semester 8							17.0	1.0		
Total credits for the Programme							138	13		

Modules offered for other Fields of Specialization

Module Code	Module Name	Category	Lectures hrs/ week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 2										
MT 1813	Engineering Materials		1.5	3/2	2.0				40	60
MT 2803	Materials Science		2	3/2	2.5				40	60
					Total for Semester					

Modules offered for Focus Area in Polymer Engineering

Module Code	Module Name	Category	Lectures hrs/ week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 5										
MT 3083	Latex Science and Technology		2.5	3/2	3.0				40	60
Semester 7										
MT 4063	Industrial Polymer Process Engineering		2.5	3/2	3.0				40	60
MT 4073	Design & Fabrication of Polymer Products		2.5	3/2	3.0				40	60
MT 4203	Research Project (Polymer Related)		-	-	4.0				100	0
Semester 8										
MT 4083	Dies and Moulds for Polymer Processing		2.5	3/2	3.0				40	60
MT 4093	Polymer Process Control and Instrumentation		2.5	3/2	3.0				40	60
MT 4203	Research Project (Polymer Related)		-	-	3.0				100	0

Modules offered for Minor in Entrepreneurship

Module Code	Module Name	Category	Lectures hrs/ week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 2										
MN 1030	Entrepreneurship Skill Development	O	1	6/2		2.0				
Semester 4										
MN 2010	Entrepreneurial Leadership	O	1.5	3/2	2.0					
Semester 5										
MN 3010	Multidisciplinary Design, Innovation and Venture Creation	O	1.5	3/2	2.0					
Semester 7										
MN 3020	Entrepreneurship Business Basics	O	2	3/1	3.0					
Semester 8										
MN 4010	Business Plan Development	O	1.5	3/2	2.0					

Modules offered for Focus Area in Electronic Materials Engineering

Module Code	Module Name	Category	Lectures hrs/ week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 5										
MT 3300	Electronic and Optical Device Engineering	E	2.5	3/2	3.0				40	60
Semester 7										
MT 4760	Electro Ceramics	E	2.5	3/2	3.0				40	60
MT 4400	Magnetism & Magnetic Materials for Device Engineering	E	2.5	3/2	3.0				40	60
MT 4203	Research Project (Electronic Materials/Device Related)		-		4.0				100	0
Semester 8										
MT 4780	Smart Materials and Devices	E	2.5	3/2	3.0				40	60
MT 4203	Research Project (Electronic Materials/Device Related)		-		3.0				100	0