

R11		
E1S1		
Course Code	Name of the Course	Credits
MA1101	Mathematics I	4
PH1101, CY1101	Physics (Chemistry)	4
HS1101, ME1101	English for Communication (Mechanics)	3
EE1101, CS1101	Electrical Technology (Programming and Data Structures)	4
ME1102, CE1101	Introduction to Manufacturing process & WSP (Engineering Drawing and Graphics)	3
PH1701, CY1701	Physics Lab (Chemistry Lab)	2
EE1701, CS1701	Electrical Technology Lab (Programming and Data Structures Lab)	2
	Total Credits	22
E1S2		
Course Code	Name of the Course	Credits
MA1202	Mathematics II	4
PH1201, CY1201	Physics (Chemistry)	4
ME1201, HS1201	Engineering Mechanics (English)	3
CS1201, EE1201	Programming & Data Structures (Electrical Technology)	4
CE1201, ME1202	Engineering Drawing and Graphics (Introduction to Manufacturing process & WSP)	3
PH1801, CY1801	Physics Lab (Chemistry Lab)	2
CS1801, EE1801	Programming & Data Structures Lab (Electrical Technology Lab)	2
	Total Credits	22
E2S1		
Course Code	Name of the Course	Credits
MM2101	Thermodynamics	4
MM2102	Structure and Property of Materials	4
MM2103	Physical Metallurgy	4
MA2103	Fourier Analysis and PDE	4
CS2101	Design of Algorithms	4

MM2701	Chemical Metallurgy lab	2
MM2703	Physical Metallurgy Lab	2
	Total Credits	24
E2S2		
Course Code	Name of the Course	Credits
MM2201	Materials Processing	4
MM2202	Mechanical Metallurgy	4
EC2201	Basic Electronics	4
MA2204	Probability and Stochastic Process	4
MM2203	Mineral Processing and Non-ferrous Extractive Metallurgy	4
MM2801	Materials Processing+lab	2
EC2801	Basic Electronics + Lab	2
	Total Credits	24
E3S1		
Course Code	Name of the Course	Credits
MM3101	Iron and Steel Making	4
MM3103	Transport Phenomena in Metallurgical Processes	4
MM3202	Introduction to Ceramic Technology	4
MM3104	Phase Transformations and Heat Treatment	4
MM3201	Material Characterization Techniques	4
MM3706	Phase Transformations and Heat Treatment Lab	2
MM3801	Material Characterization Techniques Lab	2
	Total Credits	24
E3S2		
Course Code	Name of the Course	Credits
MM3102	Corrosion and Environmental Degradation of Materials	4
MM3203	Engineering Polymers and Polymer Matrix Composites	4
MM3106	Materials Joining Technologies	4
HS3201	Environment Science & Engineering	4
MM3205	Powder Metallurgy	4
MM3802	Corrosion and Environmental Degradation of Materials lab	2
MM3106,MM3706	Materials Joining Technologies and lab	2
	Total Credits	24
E3 Summer Sem		
Course Code	Name of the Course	Credits
MM3301	Summer internship	8
	Total Credits	8
E4S1		
Course Code	Name of the Course	Credits

HS3201	Elective-I	4
	Elective- II	4
	Free Elective	4
MM4700	Project-1	8
	Total Credits	20
E4S2		
Course Code	Name of the Course	Credits
	Elective-2	4
	Elerctive-3	4
	Free Elective	4
MM4800	Project-2	8
	Comprehensive viva	2
	Total Credits	22

Grand Total Credits 190