

LEVEL ONE TERM ONE

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
Chem 107	Inorganic and Physical Chemistry	3.00	
Chem 114	Inorganic Quantitative Analysis	1.50	
EEE 155	Electrical Engineering Fundamentals	3.00	
EEE 156	Electrical Engineering Fundamentals Sessional	1.50	
Math 171	Calculus and Differential Equation	3.00	
MME 131	Introduction to Metallurgy and Materials	3.00	
Phy 102	Physics Sessional – I	1.50	
Phy 103	Optics, Waves and Oscillation	3.00	
Total Credits		19.50	

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LEVEL TWO TERM ONE

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
Math 271	Numerical Analysis, Statistics and Partial Differential Equations	4.00	
ME 260	Mechanical Engineering Drawing – II	1.50	ME 160
MME 211	Crystallography and Structure of Materials	2.00	
MME 212	Crystallography and Structure Sessional	0.75	
MME 222	Materials Testing Sessional	1.50	
MME 231	Materials Thermodynamics	3.00	
MME 241	Fuels and Combustion	3.00	
MME 242	Fuels and Combustion Sessional	1.50	
ME 243	Mechanics of Solids	3.00	Math 171
Total Credits		20.25	

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LEVEL TWO TERM TWO

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
EEE 267	Electrical and Electronic Technology	3.00	
ME 221	Elements of Fluid Mechanics and Machinery	3.00	Math 171, Math 173
MME 213	Phase Diagrams and Transformations	4.00	
MME 214	Metallography	1.50	
MME 230	Materials and Metallurgical Analysis	1.50	
MME 235	Heat and Mass Transfer	3.00	Math 271
MME 238	Computer Applications to Metallurgy and Materials	1.50	MME 138
Option	Any One of the Following		
Hum 103	Economics	3.00	
Hum 303	Principles of Accounting	3.00	
Total Credits		20.50	

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LEVEL THREE TERM TWO

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
MME 300	Industrial Training	0.00	
MME 343	Surface Engineering of Materials	3.00	
MME 344	Surface Engineering of Materials Sessional	0.75	
MME 345	Foundry Engineering	4.00	
MME 346	Foundry Engineering Sessional	1.50	
MME 347	Metal Joining Technology	3.00	
MME 348	Metal Joining Technology Sessional	1.50	
MME 365	Ceramics and Glass Engineering	3.00	
MME 366	Ceramics and Glass Engineering Sessional	0.75	
Option	Any One of the Following		
Hum 211	Sociology	2.00	
Hum 305	Economics of Development and Planning	2.00	Hum 103
Total Credits		19.50	

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LEVEL FOUR TERM ONE

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
IPE 491	Engineering Management	3.00	
MME 400	Project and Thesis	1.50	
MME 411	Principles of Materials Characterisation	3.00	MME 211, MME 323
MME 440	Materials Processing Plant Design	0.75	
MME 443	Physical Metallurgy of Steel and Heat Treatment	3.00	MME 213
MME 444	Heat Treatment and Microstructure Sessional	1.50	
MME 475	Polymers and Composites	3.00	
MME 476	Polymers and Composites Sessional	0.75	
MME 323	Physical Properties of Materials	3.00	
Total Credits		19.50	

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