

**LEVEL ONE TERM TWO**

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
Chem 133	Physical Chemistry	3.00	
Chem 135	Inorganic Chemistry	3.00	
Chem 136	Physical and Inorganic Chemistry Laboratory	1.50	
Hum 102	English Language Practice Sessional	1.50	
Math 175	Partial Differential Equation and Vector Analysis	3.00	
ME 141	Engineering Mechanics	3.00	Math 171
Phy 169	Physics - II	3.00	
Shop 182	Machine Shop, Sheet Metal and Carpentry	1.50	
<b>Total Credits</b>		<b>19.50</b>	

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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
<b>Total Credits</b>		<b>20.25</b>	

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**LEVEL THREE TERM ONE**

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
MME 321	Crystal Defects, Deformation and Fracture	3.00	
MME 325	Corrosion and Degradation of Materials	3.00	
MME 338	Application of CAD to Materials Processing	0.75	MME 138
MME 340	Communication Techniques	0.75	
MME 341	Refractories and Furnaces	3.00	
MME 342	Refractories and Furnaces Sessional	1.50	
MME 351	Principles of Ore Dressing and Extractive Metallurgy	3.00	
MME 354	Chemical Metallurgy Sessional	1.50	
MME 449	Ferrous Production Metallurgy	4.00	
<b>Total Credits</b>		<b>20.50</b>	

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**LEVEL FOUR TERM ONE**

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
MME 300	Industrial Training	0.00	
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	
<b>Total Credits</b>		<b>19.50</b>	

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