


**LEVEL ONE TERM ONE**

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
EEE 155	Electrical Engineering Fundamentals	3.00	
EEE 156	Electrical Engineering Fundamentals Sessional	1.50	
HUM 123	English	3.00	
MATH 171	Calculus and Ordinary Differential Equation	3.00	
MME 101	Materials Engineering Fundamentals	3.00	
MME 102	Materials Engineering Fundamentals Laboratory	1.50	
PHY 102	Physics Sessional	1.50	
PHY 125	Physics - I	3.00	

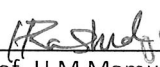
**Total Credits****19.50**

  
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**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	1.50	
MATH 175	Partial Differential Equation and Vector Analysis	3.00	
ME 141	Engineering Mechanics	3.00	
PHY 169	Physics - II	3.00	
SHOP 182	Machine Shop, Sheet Metal and Carpentry	1.50	

**Total Credits****19.50**

  
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**LEVEL TWO TERM ONE**

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
CSE 287	Computer Programming	3.00	
CSE 288	Computer Programming Sessional	1.50	
IPE 204	Engineering Graphics and Introduction to CAD	1.50	
MATH 273	Matrices, Series Solutions and Fourier Analysis	3.00	
MME 202	Professional Development and Communication Skills	1.50	
MME 211	Crystallography and Structure of Materials	3.00	
MME 215	Thermodynamics of Materials	3.00	
PHY 201	Physics - III	3.00	
<b>Total Credits</b>		<b>19.50</b>	

  
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**LEVEL THREE TERM ONE**

<b>Course Number</b>	<b>Course Name</b>	<b>Credit Hour</b>	<b>Pre-requisite Course(s)</b>
MME 301	Metal Casting and Powder Processes	4.00	
MME 302	Metal Casting and Powder Processes Laboratory	1.50	
MME 309	Ferrous Production Metallurgy	3.00	
MME 310	Capstone Project	1.50	
MME 311	Electrical, Optical and Magnetic Properties of Materials	3.00	
MME 313	Mechanical Behaviour of Materials	3.00	
MME 314	Mechanical Behaviour of Materials Laboratory	1.50	
OPTION 2	HUM Option 1 (Select One from Sub-module 8.3)	3.00	
	Hum 317 Financial, Cost and Managerial Accounting		
	Hum 319 Business Law		
	Hum 323 Engineering Economics		

**Total Credits****20.50**

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**LEVEL FOUR TERM ONE**

<b>Course Number</b>	<b>Course Name</b>	<b>Credit Hour</b>	<b>Pre-requisite Course(s)</b>
MME 400	Project and Thesis	3.00	
MME 401	Physical Metallurgy of Ferrous Alloys	3.00	MME 213
MME 405	Nanostructured Materials and Thin Films	3.00	
MME 408	Materials laboratory II	1.50	
OPTION 3	MME Option 1 (Select One from Sub-module 8.1)	3.00	
	MME 427 Surface Engineering and Tribology		
OPTION 4	MME Option 2 (Select One from Sub-module 8.1)	3.00	
	MME 435 Advanced Ceramics		
OPTION 5	HUM Option 2 (Select One from Sub-module 8.4)	3.00	
	Hum 405 Economics of Development and Planning		
	Hum 419 Introduction to e-Governance		

**Total Credits****19.50**

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