

**MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO.**  
**APPROVED CURRICULUM OF B.E. (METALLURGY & MATERIALS ENGINEERING)**  
**FOR BATCHES 01MT TO 12MT (TERM SYSTEM)**

<b>FIRST YEAR (1<sup>ST</sup> TERM)</b>		<b>CREDIT HOURS</b>	
NO.	SUBJECT	THEORY	PRACTICAL
1	Applied calculus	04	00
2	Islamic Studies/Ethics	02	00
3	Pakistan Studies	02	00
4	Introduction to Engineering Materials	04	00
5	Applied Chemistry	04	02
6	Workshop Practice	00	04
<b>TOTAL</b>		<b>16</b>	<b>06</b>
<b>FIRST YEAR (2<sup>ND</sup> TERM)</b>		<b>CREDIT HOURS</b>	
N O.	SUBJECT	THEORY	PRACTICAL
1.	English	04	00
2.	Linear Algebra Differential Equations & Solid Geometry	04	00
3.	Engineering Drawing & Graphics	04	02
4.	Applied Electricity & Electronics	04	02
5	Introduction to Computer Systems	04	02
6	Applied Physics	04	02
<b>TOTAL</b>		<b>24</b>	<b>08</b>
<b>SECOND YEAR (3<sup>RD</sup> TERM)</b>		<b>CREDIT HOURS</b>	
NO.	SUBJECT	THEORY	PRACTICAL
1.	Fuel Refectories & Furnaces	04	00
2.	Mineral Dressing	04	02
3.	Environmental Engineering	04	02
4.	Metallurgical Thermodynamic & Kinetics	04	02
5.	Mechanics of Materials	04	00
<b>TOTAL</b>		<b>20</b>	<b>06</b>
<b>SECOND YEAR (4<sup>TH</sup> TERM)</b>		<b>CREDIT HOURS</b>	
NO.	SUBJECT	THEORY	PRACTICAL
1.	Foundry Engineering	04	02
2.	Iron Making Technology.	04	02
3.	Non Ferrous Extractive Metallurgy	04	02
4.	Physical Metallurgy	04	02
5.	Science of Engineering Materials	04	02
<b>TOTAL</b>		<b>20</b>	<b>10</b>
<b>THIRD YEAR (5<sup>TH</sup> TERM)</b>		<b>CREDIT HOURS</b>	
NO.	SUBJECT	THEORY	PRACTICAL
1.	Numerical Analysis & Computer Programming	04	02
2.	Polymeric Materials	04	02
3.	Engineering Ceramics	04	02
4.	Vacuum Metallurgy	04	00
5.	Corrosion & Protection	04	02
<b>TOTAL</b>		<b>20</b>	<b>08</b>
<b>THIRD YEAR (6<sup>TH</sup> TERM)</b>		<b>CREDIT HOURS</b>	
NO.	SUBJECT	THEORY	PRACTICAL
1.	Statistical Methods and Estimation	04	00
2.	Inspection & Testing of Materials	04	02
3.	Welding & Other Joining processes	04	02
4.	Industrial Economics & Management	04	00
5.	Instrumentation and Control	04	02
<b>TOTAL</b>		<b>20</b>	<b>06</b>

**MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO.**  
**APPROVED CURRICULUM OF B.E. (METALLURGY & MATERIALS ENGINEERING)**  
**FOR BATCHES 01MT TO 12MT (TERM SYSTEM)**

<b>FINAL YEAR (7<sup>TH</sup> TERM)</b>		<b>CREDIT HOURS</b>	
<b>NO.</b>	<b>SUBJECT</b>	<b>THEORY</b>	<b>PRACTICAL</b>
1.	Nuclear Metallurgy & Materials	04	00
2.	Steel Making Technology	04	02
3.	Heat Treatment Processes	04	02
4.	Manufacturing Technology	04	02
5.	Powder Metallurgy	04	02
<b>TOTAL</b>		<b>20</b>	<b>08</b>
<b>FINAL YEAR (8<sup>TH</sup> TERM)</b>		<b>CREDIT HOURS</b>	
<b>NO.</b>	<b>SUBJECT</b>	<b>THEORY</b>	<b>PRACTICAL</b>
1.	Foundry Engineering & Practice	04	02
2.	Computer Application in Materials Engineering	04	02
3.	Advanced Materials	04	02
4.	Engineering Fracture Mechanics	04	02
5.	Thesis/Project	00	08
<b>TOTAL</b>		<b>16</b>	<b>16</b>