

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO.
APPROVED CURRICULUM OF B.E. (METALLURGY & MATERIALS ENGINEERING)
FOR BATCHES F-16MT & 17MT (SEMESTER SYSTEM)

Semester	S#	Course Code	Name of Subject	Credit Hour		Total Credit Hour
				Th	Pr	
FIRST	1	MT111	Introduction to Engineering Materials	3	0	3
	2	MT122	Applied Chemistry	2	1	3
	3	MTH102	Applied Calculus	3	0	3
	4	CS115	Introduction to Computing	2	1	3
	5	IS111	Islamic studies	2	0	2
		SS104	Ethics (For Non-Muslims)			
	6	PS106	Pakistan studies	2	0	2
		Total	14	2	16	
SECOND	1	MT123	Applied Physics	2	1	3
	2	MT124	Mineral Dressing	2	1	3
	3	MT125	Engineering Drawing & Graphics	2	1	3
	4	MTH103	Linear Algebra Differential Equation Analytical Geometry	3	0	3
	5	ENG101	Functional English	3	0	3
	6	ME176	Workshop Practice	0	2	2
			Total	12	5	17
THIRD	1	MT211	Fuel Furnaces and Energy Conservation	3	0	3
	2	MT212	Mechanical Behavior of Materials	2	1	3
	3	MT213	Materials Thermodynamics	3	0	3
	4	EE214	Industrial Safety & Environmental Engineering	2	1	3
	5	ENG201	Communication Skills	2	0	2
	6	ES291	Instrumentation & Control	3	1	4
			Total	15	3	18
FOURTH	1	MT214	Physical Metallurgy-I	2	1	3
	2	MT215	Iron Making Technology	3	0	3
	3	MT216	Vacuum Technology	2	0	2
	4	MT217	Inspection and Testing of Materials	3	1	4
	5	MT218	Nuclear Metallurgy & Materials	2	0	2
	6	MTH238	Numerical Methods & Computation	3	1	4
			Total	15	3	18

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Semester	S#	Course Code	Name of Subject	Credit Hour		Credit Hour
				Th	Th	
FIFTH	1	MT311	Physical Metallurgy-II	3	1	4
	2	MT312	Non Ferrous Extractive Metallurgy	3	0	3
	3	MT313	Manufacturing Technology	3	1	4
	4	MT314	Engineering Ceramics & Glasses	2	1	3
	5	ENG303	Business Communication & Report Writing	2	0	2
				Total	13	3
SIXTH	1	MT315	Foundry Engineering –I	3	1	4
	2	MT316	Corrosion & Protection	3	1	4
	3	MT317	Welding & other Joining Process	3	1	4
	4	MT318	Polymers and Composite Materials	3	0	3
	5	MTH311	Statistics & Probability	3	0	3
				Total	15	3
SEVENTH	1	MT411	Foundry Engineering –II	2	1	3
	2	MT412	Steel Making Technology	3	0	3
	3	MT413	Powder Metallurgy	2	0	2
	4	MT414	Heat Treatment Processes	3	1	4
	5	INM410	Industrial Economics, Management and Entrepreneurship	3	0	3
	6	---	Project *	---	---	---
				Total	13	2
EIGHTH	1	MT415	Fracture Mechanics and Failure Analysis	3	1	4
	2	MT416	Advanced Materials	3	0	3
	3	MT417	Design and Selection of Materials	2	0	2
	4	MT418	Computer Application in Materials Engineering	2	1	3
	5	MT499	Project	0	6	6
				Total	10	8

*Duration one academic year: Requires literature survey and Preliminary work during this semester

$$16+17+18+18+16+18+15+18=136$$