

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO.
APPROVED CURRICULUM OF B.E. (METALLURGY & MATERIALS ENGINEERING)
FOR BATCHES 13MT TO 16MT (SEMESTER SYSTEM)

Semester	S#	Course Code	Name of Subject	Credit Hour		Total Credit Hour
				Th	Pr	
FIRST	1	MTH102	Applied Calculus	3	0	3
	2	IS111	Islamic studies	2	0	2
	3	SS104	Ethics (For Non-Muslims)			
	4	PS106	Pakistan studies	2	0	2
		MT101	Introduction to Engineering Materials	3	0	3
	5	CS115	Introduction to Computing	2	1	3
	6	MT112	Applied Chemistry	2	1	3
			Total	14	2	16
SECOND	1	ENG101	Functional English	3	0	3
	2	MTH103	Linear Algebra Differential Equation Analytical Geometry	3	0	3
	3	INM111	Engineering Drawing & Graphics	2	1	3
	4	MT113	Applied Physics	2	1	3
	5	EL105	Applied Electricity and Electronics	3	1	4
	6	ME176	Workshop Practice	0	2	2
				Total	13	5
THIRD	1	ENG201	Communication Skills	2	0	2
	2	MT201	Fuel Furnaces and Energy Conservation	3	0	3
	3	MT202	Mineral Dressing	2	1	3
	4	MT203	Industrial Safety & Environmental Engineering	2	1	3
	5	MT204	Materials Thermodynamics & Kinetics	2	1	3
	6	MT205	Mechanical Behavior of Materials	2	1	3
				Total	13	4
FOURTH	1	MT206	Foundry Engineering –I	2	1	3
	2	MT207	Iron Making Technology	3	0	3
	3	MT208	Physical Metallurgy-I	2	1	3
	4	MT209	Non Ferrous Extractive Metallurgy	3	0	3
	5	MT210	Inspection and Testing of Materials	3	1	4
				Total	13	3

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				Th	Pr	
FIFTH	1	MTH313	Numerical Methods & Computation	3	1	4
	2	ES350	Instrumentation & Control	3	1	4
	3	MT303	Vacuum Technology	2	0	2
	4	MT301	Engineering Ceramics & Glasses	2	1	3
	5	MT304	Corrosion & Protection	3	1	4
				Total	13	4
SIXTH	1	ENG301	Business Communication & Report Writing	2	0	2
	2	MTH317	Statistics & Probability	3	0	3
	3	MT308	Physical Metallurgy-II	2	1	3
	4	MT306	Welding & other Joining Process	3	1	4
	5	INM360	Industrial Economics & Management	2	0	2
	6	MT302	Polymers and Composite Materials	3	1	4
			Total	15	3	18
SEVENTH	1	MT401	Nuclear Metallurgy & Materials	2	0	2
	2	MT402	Steel Making Technology	3	0	3
	3	MT403	Heat Treatment Processes	3	1	4
	4	MT404	Manufacturing Technology	3	1	4
	5	MT405	Powder Metallurgy	2	1	3
	6	---	Project *	---	---	---
			Total	13	3	16
EIGHTH	1	MT406	Foundry Engineering –II	2	1	3
	2	MT407	Computer Application in Materials Engineering	2	1	3
	3	MT408	Advanced Materials	3	0	3
	4	MT409	Fracture Mechanics and Failure Analysis	3	1	4
	5	MT499	Project	0	6	6
			Total	10	9	19

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

$$16+18+17+16+17+18+16+19=137$$