

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

M.Tech. (Industrial Metallurgy)

[illegible]

Program Elective Courses (Industrial Metallurgy)

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
		Electives I-II (Autumn)												
1.	MTN-505	Non Destructive testing	PEC	4	3	1	0	3	0	25	-	25	50	-
2.	MTN-507	Casting and Solidification	PEC	4	3	1	0	3	0	25	-	25	50	-
3.	MTN-512	Joining of Materials	PEC	4	3	1	0	3	0	25	-	25	50	-
4.	MTN-518	Theory of Metal Forming	PEC	4	3	1	0	3	0	25	-	25	50	-
5.	MTN-522	Composite Materials	PEC	4	3	1	0	3	0	25	-	25	50	-
		Electives III-IV (Spring)												
6.	MTN-514	Powder Metallurgy	PEC	4	3	1	0	3	0	25	-	25	50	-
7.	MTN-516	Principles of Materials Selection	PEC	4	3	1	0	3	0	25	-	25	50	-
8.	MTN-526	Failure Analysis	PEC	4	3	1	0	3	0	25	-	25	50	-
9.	MTN-528	Tribology of Engineering Materials	PEC	4	3	1	0	3	0	25	-	25	50	-
10.	MTN-532	Corrosion Protection Methods	PEC	4	3	1	0	3	0	25	-	25	50	-
11.	MTN-548	Diffusion in Solids	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
12.	MTN-559	Defects In Crystalline Materials	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
13.	MTN-554 UG Structure	CRYSTALLOGRAPHIC TEXTURE	PEC	4	3	1	0	3	0	25	-	25	50	-