

M.Tech (FMME - Fuel & Energy Engineering)

Semester I				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 1	3 1 0	4	Fuel Technology	NFMC522
DC 2	3 1 0	4	Coal & Mineral Beneficiation	NFMC502
DC 3	3 1 0	4	Alternate Energy Systems	NFMC523
DE 1	3 0 0	3	--	
DE 2	3 0 0	3	--	
DP 1	0 0 3	1.5	Thermochemical Conversion Lab	NFMC524
DP 2	0 0 3	1.5	Mineral Processing Lab	NFMC505
DP 3	0 0 3	1.5	Fuel Technology Lab	NFMC506
Total Credits 22.5				

Semester II				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 4	3 1 0	4	Energy Technology	NFMC525
DC 5	3 1 0	4	CFD of Thermal and Fluid Systems	NFMC526
DC 6	3 1 0	4	Processing of Liquid and Gaseous Fuels	NFMC527
DE 3	3 0 0	3	--	
RM	3 0 0	3	Research Methodology	NFMC595
DP 4	0 0 3	1.5	CFD of Thermal and Fluid Systems Lab	NFMC528
DP 5	0 0 3	1.5	Processing of Liquid and Gaseous Fuels Lab	NFMC529
DP 6	0 0 3	1.5	Energy Technology Lab	NFMC530
Total Credits 22.5				

Semester III				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 1	0 0 0	20	Thesis	NFMC597
Total Credits 20				

Semester IV				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 2	0 0 0	20	Thesis	NFMC598
Total Credits 20				

M.Tech (FMME - Mineral Engineering)

Semester I				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 1	3 1 0	4	Size Preparation Technology	NFMC501
DC 2	3 1 0	4	Coal & Mineral Beneficiation	NFMC502
DC 3	3 1 0	4	Process Metallurgy	NFMC503
DE 1	3 0 0	3	--	
DE 2	3 0 0	3	--	
DP 1	0 0 3	1.5	Non-ferrous Extractive Metallurgy Lab	NFMC504
DP 2	0 0 3	1.5	Mineral Processing Lab	NFMC505
DP 3	0 0 3	1.5	Fuel Technology Lab	NFMC506
Total Credits 22.5				

Semester II				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 4	3 1 0	4	Process Equipment Selection	NFMC507
DC 5	3 1 0	4	Flowsheet Design & Plant Layout	NFMC508
DC 6	3 1 0	4	Modeling of Mineral Processing Systems	NFMC509
DE 3	3 0 0	3	--	
RM	3 0 0	3	Research Methodology	NFMC595
DP 4	0 0 3	1.5	Simulation of Mineral Processing Systems Lab	NFMC510
DP 5	0 0 3	1.5	Fines Processing Lab	NFMC511
DP 6	0 0 3	1.5	Ferrous Extractive Metallurgy Lab	NFMC512
Total Credits 22.5				

Semester III				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 1	0 0 0	20	Thesis	NFMC597
Total Credits 20				

Semester IV				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 2	0 0 0	20	Thesis	NFMC598
Total Credits 20				

M.Tech (FMME - Metallurgical Engineering)

Semester I				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 1	3 1 0	4	Mechanical Behaviour of Materials	NFMC513
DC 2	3 1 0	4	Advanced Thermodynamics and Kinetics	NFMC514
DC 3	3 1 0	4	Process Metallurgy	NFMC503
DE 1	3 0 0	3	--	
DE 2	3 0 0	3	--	
DP 1	0 0 3	1.5	Non-ferrous Extractive Metallurgy Lab	NFMC504
DP 2	0 0 3	1.5	Mechanical Behaviour of Materials Lab	NFMC515
DP 3	0 0 3	1.5	Computer Applications in Metallurgical Engineering lab	NFMC516
Total Credits 22.5				

Semester II				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 4	3 1 0	4	Advanced Physical Metallurgy	NFMC517
DC 5	3 1 0	4	Materials Characterization	NFMC518
DC 6	3 1 0	4	Advanced Iron-Making Technologies	NFMC519
DE 3	3 0 0	3	--	
RM	3 0 0	3	Research Methodology	NFMC595
DP 4	0 0 3	1.5	Materials Processing Lab	NFMC520
DP 5	0 0 3	1.5	Materials Characterization Lab	NFMC521
DP 6	0 0 3	1.5	Ferrous Extractive Metallurgy Lab	NFMC512
Total Credits 22.5				

Semester III				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 1	0 0 0	20	Thesis	NFMC597
Total Credits 20				

Semester IV				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 2	0 0 0	20	Thesis	NFMC598
Total Credits 20				