

M.Tech (Mechanical- Manufacturing Engg.)

Semester I				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 1	3 1 0	4	Machining Science	NMEC501
DC 2	3 1 0	4	Thermo Production Process	NMEC502
DC 3	3 1 0	4	Theory of Metal Forming	NMEC503
DE 1	3 0 0	3	--	
DE 2	3 0 0	3	--	
DP 1	0 0 3	1.5	Thermo-Production Lab	NMEC504
DP 2	0 0 3	1.5	Modelling and Simulation Lab	NMEC505
DP 3	0 0 3	1.5	Machining Lab	NMEC506
Total Credits 22.5				

Semester II				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 4	3 1 0	4	Additive Manufacturing	NMEC525
DC 5	3 1 0	4	CAM and Automation	NMEC526
DC 6	3 1 0	4	Unconventional Manufacturing Processes	NMEC536
DE 3	3 0 0	3	--	
RM	3 0 0	3	Research Methodology	NMEC595
DP 4	0 0 3	1.5	CAM and Mechatronics Lab	NMEC527
DP 5	0 0 3	1.5	Additive Manufacturing Lab	NMEC528
DP 6	0 0 3	1.5	Unconventional Manufacturing Lab	NMEC529
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	NMEC597
Total Credits 20				

Semester IV				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 2	0 0 0	20	Thesis	NMEC598
Total Credits 20				

M.Tech (Mechanical- Thermal Engg.)

Semester I				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 1	3 1 0	4	Numerical Methods	NMEC513
DC 2	3 1 0	4	Advanced Fluid Dynamics	NMEC514
DC 3	3 1 0	4	Advanced Thermodynamics	NMEC515
DE 1	3 0 0	3	--	
DE 2	3 0 0	3	--	
DP 1	0 0 3	1.5	Thermo-Fluids Lab-I	NMEC516
DP 2	0 0 3	1.5	Thermo-Fluids Lab-II	NMEC517
DP 3	0 0 3	1.5	Computing Lab	NMEC518
Total Credits 22.5				

Semester II				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 4	3 1 0	4	Computational Fluid Dynamics	NMEC522
DC 5	3 1 0	4	Conduction and Radiation	NMEC523
DC 6	3 1 0	4	Convection and Two-Phase Flow	NMEC524
DE 3	3 0 0	3	--	
RM	3 0 0	3	Research Methodology	NMEC595
DP 4	0 0 3	1.5	Computational Fluid Dynamics Lab	NMEC530
DP 5	0 0 3	1.5	Thermo-fluids Lab – III	NMEC531
DP 6	0 0 3	1.5	Solar Thermal lab	NMEC532
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	NMEC597
Total Credits 20				

Semester IV				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 2	0 0 0	20	Thesis	NMEC598
Total Credits 20				

M.Tech (Mechanical- Machine Design)

Semester I				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 1	3 1 0	4	Theory of Elasticity	NMEC507
DC 2	3 1 0	4	Mechanical Vibration	NMEC508
DC 3	3 1 0	4	Finite Element Methods	NMEC509
DE 1	3 0 0	3	--	
DE 2	3 0 0	3	--	
DP 1	0 0 3	1.5	Computation Lab	NMEC510
DP 2	0 0 3	1.5	Mechanical Vibration Lab	NMEC511
DP 3	0 0 3	1.5	Structural Modelling and Simulation lab	NMEC512
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	NMEC597
Total Credits 20				

Semester II				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 4	3 1 0	4	Fracture Mechanics	NMEC519
DC 5	3 1 0	4	Advanced Dynamics	NMEC520
DC 6	3 1 0	4	Control System	NMEC521
DE 3	3 0 0	3	--	
RM	3 0 0	3	Research Methodology	NMEC595
DP 4	0 0 3	1.5	Control System Lab	NMEC533
DP 5	0 0 3	1.5	Mechanical Characterization Lab	NMEC534
DP 6	0 0 3	1.5	Finite Element Analyses Lab	NMEC535
Total Credits 22.5				

Semester IV				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 2	0 0 0	20	Thesis	NMEC598
Total Credits 20				