M. Tech. in Thermal Engineering - I Semester				
S. No.	**Subject Code**	**Name of Subject**	**L-T-P**	**Credits**
	Theory Subjects			
1	MEE 501	Optimization Techniques	3-1-0	4
2	MET 501	Advanced Fluid Mechanics	3-1-0	4
3	MEE 503	Finite Element Methods and Analysis	3-0-0	3
4		(Elective I)	3-0-0	3
5		(Elective II)	3-0-0	3
	Practical Labs			
6	MET 519	Advanced Thermal Engineering Lab	0-0-3	2
7	MET 521	Seminar	0-0-3	2
8	GP 501	General Proficiency		1
		Total	**15-2-6**	**22**
		Total Contact Hours		

M. Tech. in Thermal Engineering - II Semester				
S. No.	**Subject Code**	**Name of Subject**	**L-T-P**	**Credits**
	Theory Subjects			
1	MET 504	Advanced Refrigeration and Air Conditioning	3-1-0	4
2	MET 506	Measurement and Process Control	3-1-0	4
3	MET 508	Computational Fluid Dynamics	3-0-0	3
4		(Elective III)	3-0-0	3
5		(Elective IV)	3-0-0	3
	Practical Labs			
6	MET 526	Project	0-0-8	4
7	MET 528	Computational Fluid Dynamics Lab	0-0-3	2
8	GP 502	General Proficiency		1
		Total	**15-2-7**	**24**
		Total Contact Hours		

M. Tech. in Thermal Engineering - III Semester				
S. No.	**Subject Code**	**Name of Subject**	**L-T-P**	**Credits**
	Theory Subjects			
1	MET 601	Advanced I. C. Engines and Gas Turbines	3-0-0	3
2	MET 603	Energy Engineering and Management	3-0-0	3
3		(Elective V)	3-0-0	3
	Practical Labs			
4	MET 613	Dissertation (Preliminary)	2*-0-24	12
5	GP 601	General Proficiency		1
		Total	**11-0-24**	**22**
		Total Contact Hours		

*Direct contact load of faculty concern will be 1 hour per student per week subjected to maximum of 2 hours per week.

M. Tech. in Thermal Engineering - IV Semester				
S. No.	**Subject Code**	**Name of Subject**	**L-T-P**	**Credits**
	Theory Subjects			
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	Practical Labs			
1	MET 614	Dissertation	0-0-42	21
2	GP 602	General Proficiency		1
		Total		**22**
		Total Contact Hours		

List of Electives for M. Tech. Thermal Engineering

Elective -I				
S. No.	**Subject Code**	**Name of Subject**	**L-T-P**	**Credits**
1	MET 503	Advanced Heat and Mass Transfer	3-0-0	3
2	MET 505	Convective Heat and Mass Transfer	3-0-0	3
3	MET 507	Boiling, Condensation and Two-phase Flow	3-0-0	3
4	MET 509	Air Conditioning and Ventilation Systems	3-0-0	3
Elective –II				
1	MET 511	Advanced Thermodynamics	3-0-0	3
2	MET 513	Theory of Combustion and Emission	3-0-0	3
3	MET 515	Cryogenic Technology	3-0-0	3
4	MET 517	Thermal and Nuclear Power Plant	3-0-0	3
Elective –III				
1	MET 510	New and Renewable Energy Resources	3-0-0	3
2	MET 512	Alternate Fuels	3-0-0	3
3	MET 514	Solar Energy	3-0-0	3
4	MET 516	Environmental Engineering & Pollution Control	3-0-0	3
Elective –IV				
1	MET 518	Turbo Machines	3-0-0	3
2	MET 520	Aircraft and Rocket Propulsion	3-0-0	3
3	MET 522	Gas Dynamics	3-0-0	3
4	MET 524	Wind Energy Technology	3-0-0	3
Elective –V				
1	MET 605	Optimum Design of Thermal Systems	3-0-0	3
2	MET 607	Heat Exchanger Analysis and Design	3-0-0	3
3	MET 611	Experimental Methods in Thermal Engineering	3-0-0	3
4	MED 609	Design of Process Equipments	3-0-0	3