Model Plan M.Tech (ME)

Specialization : Fluid and Thermal Engineering

Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P	C	
Semester-I						
Core Course						
ME501	Advanced Fluid Mechanics	3	0	0	3	
ME503	Thermal & Fluid Systems Design	3	0	0	3	
MA701	Advanced Engineering Mathematics	3	0	0	3	
Professional Electives						
ME511	Conduction and Radiation	3	0	0	3	
ME513	Aerodynamics	3	0	0	3	
ME515	Experimental Methods in Mechanical Systems	3	0	0	3	
ME517	Advanced Thermodynamics	3	0	0	3	
Core course Lab						
ME551	Advanced Fluid Mechanics Lab	0	0	2	1	
Elective course Lab						
ME561	Thermal and Fluid System Properties Measurement Lab	0	0	2	1	
Computational Lab-I						
ME555	Computational Lab	0	0	2	1	
ME505	Seminar & Technical report writing-I	0	0	2	1	
		21	**0**	**8**		
		29			**25**	
Semester-II						
Core Course						
ME502	Convective Heat and Mass Transfer	3	0	0	3	
ME504	Computational Fluid Dynamics	3	0	0	3	
Professional Electives						
ME510	Electrohydraulic Systems and Control	3	0	0	3	
ME512	Power Production Engineering	3	0	0	3	
ME514	Advanced Fluid Machines	3	0	0	3	
Core course Lab						
ME552	Heat Transfer Lab	0	0	2	1	
Elective course Lab						
ME562	Thermal and Fluid Power Laboratory	0	0	2	1	

Computing Lab-II						
ME556	Computing Lab-II	0	0	2	1	
ME506	Seminar & Technical report writing	0	0	2	1	
ME508	Review work for project	0	0	4	2	
		15	**0**	**12**		
		27			**21**	
Semester-III						
ME603	Technical Report and presentation on mini project/internship work	0	0	4	2	
ME601	Project-I	0	0	22	11	
		0	**0**	**26**		
		26			**13**	
Semester-IV						
ME602	Project-II	0	0	28	14	
		0	**0**	**28**		
		28			**14**	