

Structure of Curriculum

ME M.Tech Curriculum

Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
Semester-I						
ME501	Core Course-I	3	0	0	3	
	Advanced Fluid Mechanics					
ME503	Core Course-II	3	0	0	3	
	Thermal & Fluid Systems Design					
MA701	Core Course-III (Math course)	3	0	0	3	
	Advanced Engineering Mathematics					
ME5XX	Elective Course-I	3	0	0	3	
ME5XX	Elective Course-II	3	0	0	3	
ME551	Core course Lab	0	0	2	1	
	Advanced Fluid Mechanics Lab					
ME561	Elective course Lab	0	0	2	1	
	Thermal and Fluid System Properties Measurement Lab					
ME555	Computing Lab-I Computational Lab	0	0	2	1	
ME505	Seminar & Technical report writing-I	0	0	2	1	
		15	0	8		
		23			19	
List of Elective Courses for 1st Semester						
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
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	
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
Semester-II						
ME502	Core Course-IV	3	0	0	3	
	Convective Heat and Mass Transfer					
ME504	Core Course-V	3	0	0	3	
	Computational Fluid Dynamics					
ME5XX	Elective Course –III	3	0	0	3	
ME5XX	Elective Course –IV	3	0	0	3	
ME552	Core course Lab	0	0	2	1	
	Heat Transfer Lab					
ME562	Elective course Lab	0	0	2	1	
	Thermal and Fluid Power Laboratory					

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	
		12	0	12		
		24			18	
Non-Credit Compulsory Course: Internship/Mini Project						
List of Elective Courses for 2nd Semester						
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
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	
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	13	
		26			13	
Semester-IV						
ME602	Project-II	0	0	28	14	
		0	0	28	14	
		28			14	