

Semester I

Code	Subject	No. of Hours				Exam Hours	Maximum Marks		
		L	T	P	C		I	E	T
EMTE1FT091	Advanced Mathematics	4	1	-	3	3	40	60	100
EMTE1DT092	Advanced Fluid Mechanics	4	1	-	3	3	40	60	100
EMTE1DT093	Advanced Thermodynamics	4	1	-	3	3	40	60	100
EMTE1DT094	Advanced Heat Transfer – I	4	1	-	3	3	40	60	100
EMTE1DE095 (A to C)	Elective – I	3	1	-	3	3	40	60	100
EMTE1DE096 (A to C)	Elective – II	3	1	-	3	3	40	60	100
EMTE1DP091	Mechanical Laboratory – I	-	-	6	2	3	40	60	100
Total		22	6	6	20		280	420	700

Semester II

Code	Subject	No. of Hours				Exam Hours	Maximum Marks		
		L	T	P	C		I	E	T
EMTE2DT091	Experimental Techniques in Thermal Power Engineering	4	1	-	3	3	40	60	100
EMTE2DT092	Design of Thermal Power Equipments	4	1	-	3	3	40	60	100
EMTE2DT093	Energy Engineering	4	1	-	3	3	40	60	100
EMTE2DT094	Advanced Heat Transfer- II	4	1	-	3	3	40	60	100
EMTE2ET095 (A to C)	Elective – III	3	1	-	3	3	40	60	100
EMTE2ET096 (A to C)	Elective – IV	3	1	-	3	3	40	60	100
EMTE2DP091	Mechanical Laboratory – II	-	-	6	2	3	40	60	100
Total		22	6	6	20		280	420	700

Semester III

Code	Subject	No. of Hours				Exam Hours	Maximum Marks		
		L	T	P	C		I	E	T
EMTE3FE091 (A to C)	Elective – V	4	1	-	3	3	40	60	100
EMTE3DE092 (A to C)	Elective – VI	4	1	-	3	3	40	60	100
EMTE3DP091	Project Work Phase-I	-	-	28	6	3	40	60	100
Total		8	2	28	12		240	360	600

Semester IV

Code	Subject	No. of Credits	Maximum Marks		
			I	E	T
EMTE4DP091	Project Work Phase-II	12	40	60	100
Total		12	40	60	100

L : Lecture periods; T : Tutorial periods; P : Practical periods;
 I : Internal assessment; E : External assessment; T : Total marks

LIST OF ELECTIVE SUBJECTS

Semester I

Elective – I

Code	Subject
EMTE1DE095A	Finite Element Analysis
EMTE1DE095B	Cryogenics
EMTE1DE095C	Energy Conservation And Management

Elective – II

Code	Subject
EMTE1DE096A	Gas turbines & Jet propulsion
EMTE1DE096B	Design of Heat transfer Equipment
EMTE1DE096C	Alternative Fuels And Their Applications

Semester II

Elective – III

Code	Subject
EMTE2DE095A	Refrigeration & Air Conditioning
EMTE2DE095B	Industrial Pollution Control
EMTE2DE095C	Co-Generation And Its Applications

Elective – IV

Code	Subject
EMTE2DE096A	Nuclear Power Plant Engineering
EMTE2DE096B	Modelling And Simulation Of Energy Systems
EMTE2DE096C	Energy Auditing and Conservation

Semester III

Elective – V

Code	Subject
EMTE3DE091A	Utilisation Of Solar Energy
EMTE3DE091B	Speciality Engines
EMTE3DE091C	Bio-Energy And Conversion Systems

Elective – VI

Code	Subject
EMTE3DE092A	Simulation of I.C. Engine processes
EMTE3DE092B	Computational Fluid Dynamics
EMTE3DE092C	Modelling Of C.I.Engine Processes