

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
REGULATIONS 2017
M.E. THERMAL ENGINEERING
CHOICE BASED CREDIT SYSTEM
I TO VI SEMESTERS (PART TIME) CURRICULUM

SEMESTER I

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA5153	Advanced Numerical Methods	FC	5	3	2	0	4
2.	TE5151	Advanced Heat Transfer	FC	4	4	0	0	4
3.	TE5101	Advanced Thermodynamics	FC	4	4	0	0	4
PRACTICAL								
4.	TE5111	Thermal Engineering Laboratory	PC	4	0	0	4	2
TOTAL				17	11	2	4	14

SEMESTER II

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	TE5201	Instrumentation for Thermal Engineering	PC	3	3	0	0	3
2.	TE5102	Advanced Fluid Mechanics	PC	3	3	0	0	3
3.	TE5202	Fuels and Combustion	PC	3	3	0	0	3
PRACTICAL								
4.	TE5261	Thermal Systems Simulation Laboratory	PC	4	0	0	4	2
TOTAL				13	9	0	4	11

SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	TE5301	Design and Optimization of Thermal Energy Systems	PC	3	3	0	0	3
2.	TE5291	Environmental Engineering and Pollution Control	PC	3	3	0	0	3
3.		Professional Elective I	PC	3	3	0	0	3
TOTAL				9	9	0	0	9

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective II	PE	3	3	0	0	3
2.		Professional Elective III	PE	3	3	0	0	3
3.		Professional Elective IV	PE	3	3	0	0	3
PRACTICAL								
4.	TE5211	Technical Seminar – I	EEC	2	0	0	2	1
TOTAL				11	9	0	2	10

SEMESTER V

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective V	PE	3	3	0	0	3
2.		Professional Elective VI	PE	3	3	0	0	3
3.		Professional Elective VII	PE	3	3	0	0	3
PRACTICAL								
5.	TE5311	Technical Seminar – II	EEC	2	0	0	2	1
6.	TE5312	Project Work Phase – I	EEC	12	0	0	12	6
TOTAL				23	9	0	14	16

SEMESTER VI

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
PRACTICAL								
1.	TE5411	Project Work Phase – II	EEC	24	0	0	24	12
TOTAL				24	0	0	24	12

TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE = 72

**LIST OF ELECTIVES FOR M.E THERMAL ENGINEERING
SEMESTER III (Elective I)**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	TE5001	Aircraft and Jet Propulsion	PE	3	3	0	0	3
2.	EY5071	Hydrogen and Fuel Cell Technologies	PE	3	3	0	0	3
3.	EY5152	Energy Resources	PE	3	3	0	0	3
4.	TE5002	Advanced Internal Combustion Engines	PE	3	3	0	0	3

SEMESTER IV (Elective II, III & IV)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	TE5071	Computational Fluid Dynamics for Thermal Systems	PE	3	3	0	0	3
2.	TE5005	Fans, Blowers and Compressors	PE	3	3	0	0	3
3.	TE5006	Food Processing, Preservation and Transport	PE	3	3	0	0	3
4.	EY5091	Nuclear Engineering	PE	3	3	0	0	3
5.	IC5091	Automobile Engineering	PE	3	3	0	0	3
6.	TE5007	Air Conditioning Systems	PE	3	3	0	0	3
7.	TE5008	Energy Management in Thermal Systems	PE	3	3	0	0	3
8.	TE5003	Cryogenic Engineering	PE	3	3	0	0	3
9.	TE5004	Refrigeration Systems	PE	3	3	0	0	3

SEMESTER V (Elective V, VI & VII)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EY5092	Design and Analysis of Turbomachines	PE	3	3	0	0	3
2.	TE5073	Boundary Layer Theory and Turbulence	PE	3	3	0	0	3
3.	TE5074	Advanced Power Plant Engineering	PE	3	3	0	0	3
4.	EY5072	Steam Generator Technology	PE	3	3	0	0	3
5.	EY5073	Fluidized Bed Systems	PE	3	3	0	0	3
6.	TE5009	Advanced Thermal Storage Technologies	PE	3	3	0	0	3
7.	TE5010	Cogeneration and Waste Heat Recovery Systems	PE	3	3	0	0	3
8.	MF5072	Research Methodology	PE	3	3	0	0	3
9.	IC5251	Alternative Fuels for IC Engines	PE	3	3	0	0	3
10.	TE5072	Design of Heat Exchangers	PE	3	3	0	0	3

