AFFILIATED INSTITUTIONS

ANNA UNIVERSITY, CHENNAI

REGULATIONS 2013

M.E. ENERGY ENGINEERING

I TO VI SEMESTERS CURRICULUM (PART TIME)

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	L	т	Р	С
THE	THEORY					
1	MA7169	Advanced Numerical Methods	3	1	0	4
2	EY7101	Fluid Mechanics and Heat Transfer	3	1	0	4
3	EY7102	Thermodynamic Analysis of Energy Systems	3	1	0	4
		TOTAL	9	3	0	12

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	т	Ρ	С		
THE	THEORY							
1	EY7201	Energy Conservation in Electrical Systems	3	0	0	3		
2	EY7202	Design and Analysis of Turbomachines	3	0	0	3		
3		Elective I	3	0	0	3		
PRA	PRACTICAL							
4	EY7211	Seminar	0	0	2	1		
5	EY7212	Simulation Laboratory	0	0	3	2		
		TOTAL	9	0	5	12		

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	т	Ρ	С		
THE	THEORY							
1	EY7103	Energy Resources	3	0	0	3		
2	EY7104	Energy Conservation in Thermal Systems	3	0	0	3		
3		Elective II	3	0	0	3		
PRA	PRACTICAL							
4	EY7111	Energy Laboratory	0	0	3	2		
		TOTAL	9	0	3	11		

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	т	Ρ	с	
THE	THEORY						
1	EY7203	Measurement and Control for Energy Systems	3	0	0	3	
2		Elective III	3	0	0	3	
3		Elective IV	3	0	0	3	
		TOTAL	9	0	0	9	

SEMESTER V

SL. NO	COURSE CODE	COURSE TITLE	L	Т	Р	С		
THEORY								
1.		Elective V	3	0	0	3		
2.		Elective VI	3	0	0	3		
3.		Elective VII	3	0	0	3		
PRAC	PRACTICAL							
3.	EY7311	Project Work (Phase I)	0	0	12	6		
		TOTAL	6	0	12	15		

SEMESTER VI

SL. NO	COURSE CODE	COURSE TITLE	L	Т	Р	С		
PRAC	PRACTICAL							
1.	EY7411	Project Work (Phase II)	0	0	24	12		
		TOTAL	0	0	24	12		

TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE = 71

ELECTIVES FOR M.E ENERGY ENGINEERING

Elective I

SL. NO	COURSE CODE	COURSE TITLE	L	Т	Ρ	С
1	EY7001	Energy Systems Modeling and Analysis	3	0	0	3
2	TE7001	Design of Heat Exchangers	3	0	0	3
3	EB7071	Electrical Drives and Controls	3	0	0	3
4	EY7002	Power Generation, Transmission and Utilization	3	0	0	3
5	PX7301	Power Electronics for Renewable Energy Systems	3	0	0	3
6	EY7003	Hydrogen and Fuel Cell Technologies	3	0	0	3

Elective II, III & IV

SL. NO	COURSE CODE	COURSE TITLE	L	Т	Ρ	С
1	EY7004	Energy Conversion Techniques	3	0	0	3
2	EY7005	Solar Energy Technologies	3	0	0	3
3	EY7006	Wind Energy Technologies	3	0	0	3
4	EY7007	Bio Energy Conversion Techniques	3	0	0	3
5	EY7008	Nuclear Engineering	3	0	0	3
6	EY7009	Computational Fluid Dynamics for Energy Systems	3	0	0	3

Elective V, VI & VII

SL. NO	COURSE CODE	COURSE TITLE	L	Т	Ρ	С
1	TE7010	Advanced Power Plant Engineering	3	0	0	3
2	EY7010	Steam Generator Technology	3	0	0	3
3	EY7011	Fluidized Bed Systems	3	0	0	3
4	EY7012	Advanced Energy Storage Technologies	3	0	0	3
5	EY7013	Waste Management and Energy Recovery	3	0	0	3
6	EY7014	Energy Efficient Buildings	3	0	0	3
7	TE7203	Environmental Engineering and Pollution Control	3	0	0	3
8	EY7015	Energy forecasting, Modeling and Project Management	3	0	0	3