



**M.TECH - RENEWABLE ENERGY
 (THREEYEAR PART TIME)**

CURRICULUM 2009

SEMESTER I

Code No.	Course Title	L	T	P	C
THEORY					
PYRE101	Fuels and Combustion Technology	2	1	0	3
PYRE102	Hydro Power Technology	2	1	0	3
PYRE103	Solar Energy Engineering	2	1	0	3
PRACTICAL					
PYRE104	Solar Energy Lab	0	0	3	2

Total Hours:12

Total Credits :11

SEMESTER II

Code No.	Course Title	L	T	P	C
THEORY					
PYRE201	Bio-Energy Engineering	2	1	0	3
PYRE202	Wind Energy, Tidal Energy and OTEC	2	1	0	3
PYRE203	Electrical Energy Technology	2	1	0	3
PRACTICAL					
PYRE204	Bio and Thermal Energy Lab	0	0	3	2

Total Hours:12

Total Credits:11



SEMESTER III

Code No.	Course Title	L	T	P	C
THEORY					
PYRE301	Computational Fluid Dynamics	2	1	0	3
PYRE302	Hydrogen and Nuclear Energy	2	1	0	3
PYRE**	Elective - I	2	1	0	3
PRACTICAL					
PYRE303	Computational Fluid Dynamic Lab	0	0	3	2

SEMESTER III

Code No.	Course Title	L	T	P	C
THEORY					
PYRE401	Energy Audit and Management	2	1	0	3
PYRE402	Statistical Tools for a Data analysis	2	1	0	3
PYRE**	Elective -II	2	1	0	3
PRACTICAL					
PYRE 403	Mini Project	0	0	3	2

Total Hours: 21

Total Credits:11

SEMESTER V

Code No.	Course Title	L	T	P	C
THEORY					
PYRE501	Unit operations in Industries	2	1	0	3
PYRE**	Elective – III	2	1	0	3
PYRE**	Elective – IV	2	1	0	3
PRACTICAL					
PYRE 502	Project work Phase - I	0	0	3	2

Total Hours: 21

Total Credits:11

SEMESTER VI

Code No.	Course Title	L	T	P	C
THEORY					
PYRE601	Project work Phase – II	0	0	24	12

Total Hours:34

Total Credits: 17

Over all credits:67

LIST OF ELECTIVES					
PYRE71	Fluid Dynamics and Heat Transfer	2	1	0	3
PYRE72	Energy Conservation in HVAC	2	1	0	3
PYRE73	Environmental Engineering	2	1	0	3
PYRE74	Carbon Sequestration and Trading	2	1	0	3
PYRE75	Waste Management and Energy Recovery	2	1	0	3
PYRE76	Optimum Utilization of Heat and Power	2	1	0	3
PYRE77	CAD/CAM - Renewable Energy	2	1	0	3
PYRE78	Sustainable Development	2	1	0	3
PYRE79	Process Control and Instrumentation Technology	2	1	0	3
PYRE80	Energy Efficient building	2	1	0	3
PYRE81	Energy Modeling, Economics and Project Management	2	1	0	3

NOTE:

- L → LECTURE HOURS
- T → TUTORIAL HOURS
- P → PRACTICAL HOURS
- C → CREDITS HOURS