



Rajasthan Technical University (RTU)

Mechanical (Renewable Energy Technology)

M. Tech Program in Mechanical Engineering with specialization in Renewable Energy Technology

Courses

The theory subjects will be of maximum 125 Marks each having 25 Marks as course work and 100 Marks for University examination.

First Semester

S. No.	Code No.	Subject	L	T	P	Marks	Ex. Hrs.
1.	1MERET1	Renewable Energy Sources	3	1	0	125	3
2.	1MERET2	Advanced Thermodynamics	3	1	0	125	3
3.	1MERET3	Numerical Methods	3	1	0	125	3
4.	1MERET4	Advanced Heat Transfer	3	1	0	125	3
5.	1MERET5	Renewable Energy Lab - I	0	0	3	100	3
Total			12	4	3	600	

Second Semester

S. No.	Code No.	Subject	L	T	P	Marks	Ex. Hrs.
6.	2MERET6	Solar Energy	3	1	0	125	3
7.	2MERET7	Wind Energy Technology	3	1	0	125	3
8.	2MERET8	Fuel Cell Technology	3	1	0	125	3
9.	2MERET9	Analysis of Power plants	3	1	0	125	3
10.	2MERET10	Renewable Energy Lab - II	0	0	3	100	3
Total			12	4	3	600	



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Third Semester

S. No.	Code No.	Subject	L	T	Marks	Ex. Hrs.
11.	3MERET11	Elective 1	3	1	125	3
12.	3 MERET12	Elective 2	3	1	125	3
13.	3 MERET13	Seminar			150	
14.	3 MERET14	Dissertation –I			100	
Total			6	2	500	

Fourth Semester

S. No.	Code No.	Subject	L	T	Marks	Ex. Hrs.
15.	4 MERET15	Dissertation -II			500	
Total					500	

List of Electives (For 3MERET11 & 3MERET12):

Choose any two out of six given below.

3MERET11&12.1:Nuclear Power Plant

3MERET11&12.2:Biogas/Bio diesel technology

3MERET11&12.3:Advanced Applications in Solar Energy Technology

3MERET11&12.4:Hydrogen energy

3MERET11&12.5:Wind Turbine design and control

3MERET11&12.6:Direct Energy conversion Systems