

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)
Teaching and Examination Scheme-(For Students Admitted in A.Y. 2024-25 & onwards)
M.Tech. - Renewable Energy Technology (RET)

Sr. No.	Branch	Year	Sem.	Course Code	Course Name	Category	Teaching & Learning Scheme				Exam Hrs.	Marks			Credit	
							Classroom Instructions (CI) (in hours per semester)		Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self-Learning (SL) (TW+SL) (in hours per semester)		Total no. of Hours per semester	CIE	SEE		Total
							L	T	P	SL						
1	RET	I	I	MEPL101	Renewable Energy Sources	PCC	45	0	0	45	90	3	40	60	100	3
2	RET	I	I	MEPL102	Solar Photovoltaics	PCC	45	0	0	45	90	3	40	60	100	3
3	RET	I	I	MEPL111	Solar Heating & Cooling	PEC	45	0	0	45	90	3	40	60	100	3
4	RET	I	I	MEPL112	Hydrogen Energy		45	0	0	45	90	3	40	60	100	
5	RET	I	I	MEPL113	Energy Conservation & Management		45	0	0	45	90	3	40	60	100	
6	RET	I	I	MEPL114	Energy Storage Technology	PEC	45	0	0	45	90	3	40	60	100	3
7	RET	I	I	MEPL115	Biofuel Technology & Mechanism		45	0	0	45	90	3	40	60	100	
8	RET	I	I	MEPL116	Energy Economics & Policy Making		45	0	0	45	90	3	40	60	100	
9	RET	I	I	NP40.01	Optimization Techniques	MCC	45	0	0	45	90	3	40	60	100	3
10	RET	I	I	NP99.XX	AUDIT COURSE	MCC	-	-	-	-	-	-	-	-	-	-
11	RET	I	I	MEPP130	Renewable Technology Lab	PCC	0	0	60	-	60	2	60	40	100	2
12	RET	I	I	MEPP131	Solar Photovoltaic Lab	PCC	0	0	60	-	60	2	60	40	100	2
13	RET	I	I	MEPA100	Social Outreach, Discipline & Extra Curricular Activities (SODECA)	SODECA	-	-	-	-	-	-	-	-	100	1
Total Credit																20

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							L	T	P	SL						
1	RET	II	II	MEPL201	Wind Energy Technology	PCC	45	0	0	45	90	3	40	60	100	3
2	RET	II	II	MEPL202	Fuel Cell Technology	PCC	45	0	0	45	90	3	40	60	100	3
3	RET	II	II	MEPL211	Analysis of Power Plants	PEC	45	0	0	45	90	3	40	60	100	3
4	RET	II	II	MEPL212	Green Buildings		45	0	0	45	90	3	40	60	100	
5	RET	II	II	MEPL213	Advanced Photovoltaic Technology		45	0	0	45	90	3	40	60	100	
6	RET	II	II	MEPL214	Solar Thermal Energy	PEC	45	0	0	45	90	3	40	60	100	3
7	RET	II	II	MEPL215	Electric Vehicle Technology		45	0	0	45	90	3	40	60	100	
8	RET	II	II	MEPL216	Numerical Methods		45	0	0	45	90	3	40	60	100	
9	RET	II	II	NP99.XX	AUDIT COURSE	MCC	-	-	-	-	-	-	-	-	-	-
10	RET	II	II	MEPP230	Building Energy Simulation Lab	PCC	0	0	60	-	60	2	60	40	100	2
11	RET	II	II	MEPP231	Solar Energy Simulation Lab	PCC	0	0	60	-	60	2	60	40	100	2
12	RET	II	II	MEPD250	Mini Project with Seminar	REW	0	0	60	-	60	4	60	40	100	2
13	RET	II	II	MEPA200	Social Outreach, Discipline & Extra Curricular Activities (SODECA)	SODECA	-	-	-	-	-	-	-	-	100	1
Total Credit																19

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							L	T	P	SL						
1	RET	III	III	MEPL311	Advanced Heat Transfer	PEC	45	0	0	45	90	3	40	60	100	3
2	RET	III	III	MEPL312	Solid Waste Management		45	0	0	45	90	3	40	60	100	
3	RET	III	III	MEPL313	Environmental Impact Analysis		45	0	0	45	90	3	40	60	100	
4	RET	III	III	NP40.02	Research Methodology & IPR	MCC	45	0	0	45	90	3	40	60	100	3
5	RET	III	III		Open Elective (Choose subject from the list)	MCC	45	0	0	45	90	3	40	60	100	3
6	RET	III	III	MEPD360	Pre Dissertation	REW	-	-	300			2	240	160	400	12
Total Credit																21
1	RET	IV	IV	MEPD470	Dissertation	REW	-	-	480			4	360	240	600	20
Total Credit																20