TEACHING SCHEME

POSTGRADUATE PROGRAMMES

[M.Tech. in Energy Technology]

Session: 2017-18 (Onward)

Centre for Energy and Environmental Engineering

National Institute of Technology

Hamirpur, Himachal Pradesh, India– 177 005

Web Site: http://www.nith.ac.in

Centre for Energy and Environmental Engineering, NIT –Hamirpur (HP)

M. Tech (Energy Technology)

Teaching Scheme

(i)Year I - Semester I

S. No.	Subject Code	Title	L	T	P	Credit	Hours /Week
1.	EN-600	Foundation for Energy Systems Technology	3	0	0	3	3
2.	EN-601	Solar Photovoltaic Technology	3	0	0	3	3
3.	EN-602	Bio-Energy Systems Technology	3	0	0	3	3
4.	-----	**Elective-I**	3	0	0	3	3
5.	-----	**Elective-II**	3	0	0	3	3
6.	EN-603	Energy Laboratory - I	0	0	3	2	3
Total			**15**	**0**	**3**	**17**	**18**

(ii)Year I - Semester II

S. No.	Subject Code	Course Title	L	T	P	Credit	Hours /Week
1.	EN-604	Solar Thermal Technology	3	0	0	3	3
2.	EN-605	Wind Energy Technology	3	0	0	3	3
3.	EN-606	Energy Efficiency and Management	3	0	0	3	3
4.	------	**Elective-III**	3	0	0	3	3
5.	------	***Open Elective-I (From Other Departments)**	3	0	0	3	3
6.	EN-607	Energy Laboratory- II	0	0	3	2	3
Total			**15**	**0**	**3**	**17**	**18**

***The student will have to take an Open Elective offered by other Departments during Semester**

(iii)Year II – Semester III

S. No.	Subject Code	Course Title	L	T	P	Credit	Hours /Week
1.	EN-799	Self study Course	0	0	0	2	3
2.	EN-800	Seminar	0	0	3	2	3
3.	EN-801	**Dissertation –1[to continue in the IVth semester]**	0	0	0	12	24
Total			**0**	**0**	**3**	**16**	**30**

(iv)Year II - Semester IV

S. No.	Subject Code	Course Title	L	T	P	Credit	Hours /Week
1.	EN-801	**Dissertation – [Continued from IIIrd semester]**	-	-	-	20	40
		Total				**20**	**40**

List of Electives for M.Tech [Energy Technology]

S.No.	Subject Code	Course Title	L	T	P	Credit	Hours /Week
1.	EN-700	Solar Passive Building Technology	3	0	0	3	3
2.	EN-701	Bio-Fuels	3	0	0	3	3
3.	EN-702	Energy Generation from Waste	3	0	0	3	3
4.	EN-703	Energy and Climate Change Concerns	3	0	0	3	3
5.	EN-704	Hydro Power Management	3	0	0	3	3
6.	EN-705	Environment Policy and Environment Impact Assessment	3	0	0	3	3
7.	EN-706	Energy Economics	3	0	0	3	3
8.	EN-707	Waste Heat Recovery Systems	3	0	0	3	3
9.	EN-708	Green Building Architecture and Planning	3	0	0	3	3
10.	EN-709	Fuel Cells and Hydrogen Energy	3	0	0	3	3
11.	EN-710	Wind Energy Farm Development and Operation	3	0	0	3	3
12.	EN-711	Wind Power Generators	3	0	0	3	3
13.	EN-712	Industrial Applications of Nuclear Energy	3	0	0	3	3
14.	EN-713	Nuclear Power Technology	3	0	0	3	3
15.	EN-714	Materials for Energy Applications	3	0	0	3	3
16.	EN-715	Fuel Technology	3	0	0	3	3
17.	EN-716	Bio-Fuel Technology	3	0	0	3	3