

COURSE: RENEWABLE ENERGY PLANTS		
DEGREE: MECHANICAL ENGINEERING	YEAR: 4	TERM: 2

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 3,25h)
1	1	Solar energy: Available solar radiation. Measurement of solar radiation	x		no		1.66	3.25
2	2	Solar radiation on surfaces of fixed orientation	x		no		1.66	3.25
3	3	Technologies of solar thermal collectors	x		no		1.66	3.25
4	4	Desing of solar facilities to produce domestic hot water, heating and cooling.	x		no		1.66	3.25
5	5	Solar radiation on surfaces with solar tracking	x		no		1.66	3.25
6	6	Lab 1: Visit to the solar thermal facility of the department. Meterological station and data acquisition. Measurements of diffuse and global solar radiation along a day.			yes	Lab department	1.66	3.25
7	7	Technologies of solar collectors to produce electricity. Solar thermal plants.	x		no		1.66	3.25
8	8	Partial exam: Solar energy	x		no		1.66	3.25
9	9	Hydroelectric energy, facilities and applications	x		no		1.66	3.25
10	10	Wind energy, evaluation of the energy available in the wind and their possible uses	x		no		1.66	3.25

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11	11	Lab 2: Performance of a Pelton microturbine			yes		1.66	3.25
12	12	Wind energy, technologies in use.	x		no	Lab department	1.66	3.25
13	13	Geothermal energy. Potential and applications	x		no		1.66	3.25
14	14	Bioenergy, biomass and biofuels. Types and applications	x		no		1.66	3.25
	15						1.66	3.25
Subtotal 1							25	49
Total 1 (Hours of class plus student homework)							74	
15		Tutorials, handing in, etc					1.8	-
16		Assessment					4	4
17								
18								
Subtotal 2							6	4
Total 2 (Hours of class plus student homework)							10	
TOTAL (<i>Maximun 83 horas</i>)							83	