

<b>COURSE: RENEWABLE ENERGY PLANTS</b>		
<b>DEGREE: MECHANICAL ENGINEERING</b>	<b>YEAR: 4</b>	<b>TERM: 2</b>

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	Photovoltaics solar energy	x		no		1,66	3,25
9	9	Partial exam: Solar energy	x		no		1,66	3,25
10	10	Hydroelectric energy, facilities and applications	x		no		1,66	3,25

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11	11	Wind energy, evaluation of the energy available in the wind and their possible uses			no		1,66	3,25
12	12	Lab 2: Performance of a Pelton microturbine	x		yes	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	Additional session					1,66	3,25
<b>Subtotal 1</b>							<b>25</b>	<b>49</b>
<b>Total 1 (Hours of class plus student homework)</b>							<b>74</b>	
15		Tutorials, handing in, etc					1,8	-
16		Assessment					4	4
17								
18								
<b>Subtotal 2</b>							<b>6</b>	<b>4</b>
<b>Total 2 (Hours of class plus student homework)</b>							<b>10</b>	
<b>TOTAL ( <i>Maximun 83 horas</i> )</b>							<b>83</b>	