



COURSE: Aero-thermochemical Systems (280 - 15061)

DEGREE: Bachelor in Energy Engineering

YEAR: 2015-16

TERM: 2nd

WEEKLY PLANNING

WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	The science of aerothermochemistry	X			NO		1,6	5
1	2	Conservation equations for chemically reacting flows	X			NO		1,6	
2	3	Conservation equations for chemically reacting flows	X			NO		1,6	5
2	4	Thermochemistry	X			NO		1,6	
3	5	Thermochemistry	X			NO		1,6	7
3	6	Thermochemistry	X			NO		1,6	
4	7	Case Study (Computer lab)	X		Comput. class room	NO		1,6	7
4	8	Case Study (Mid-term exam)	X			NO		1,6	
5	9	Combustion kinetics	X			NO		1,6	5

5	10	Combustion kinetics	X			NO		1,6	
6	11	Combustion in homogeneous systems	X			NO		1,6	5
6	12	Combustion in homogeneous systems	X			NO		1,6	
7	13	Flames	X			NO		1,6	7
7	14	Flames	X			NO		1,6	
8	15	Case Study (Mid-term exam)	X			NO		1,6	7
8	16	Power Systems and Steam Generators	X			NO		1,6	
9	17	Steam Boilers and HRSG's	X			NO		1,6	7
9	18	Thermal Systems with Cyclepad©	X		Comput. class room	NO		1,6	
10	19	Case Study	X			NO		1,6	7
10	20	Heat Transfer in Boilers and HRSG: Liquid Side	X			NO		1,6	
11	21	Case Study	X			NO		1,6	7
11	22	Heat Transfer in Boilers and HRSG: Gas Side	X			NO		1,6	
12	23	Case Study	X			NO		1,6	7
12	24	Case Study	X		Comput. class room	NO		1,6	
13	25	Off-Design of HRSG Boilers	X			NO		1,6	7
13	26	Thermal Design of Coal-Fired Boilers	X			NO		1,6	
14	27	Case Study	X			NO		1,6	7
14	28	Thermal design of HRSG Boilers	X			NO		1,6	
	29	Case Study	X			NO		1,6	

Subtotal 1 **48,33** **90**

Total 1 (Hours of class plus student homework hours between weeks 1-14) **138,33**

15		Tutorials, handing in, etc						10,67	
16		Assessment						3	10
17									
18									

Subtotal 2 **3** **10**

Total 2 (Hours of class plus student homework hours between weeks 15-18) **23,67**

TOTAL (*Total 1 + Total 2. Maximum 180 hours*)

162