

SUBJECT: Advanced Management of Smart Grids				
BACHELOR'S DEGREE IN ENERGY ENGINEERING	Course: 4º	SEMESTER: 2		

	Weekly planning								
WEEK	SESSION	DESCRIPTION		GROUPS (mark X)		Indicate YES/NO If the session needs 2	WEEKLY PROGRAMMING FOR STUDENT		
~	N		LECTURES	SEMINARS	class room, audio-visual class room)	teachers	DESCRIPTION	CLASS HOURS	HOMEW ORK HOURS (Max. 7h week)
1	1	Smart Grids Introduction: What are Smart grids? Why are they needed? functionalities and benefits of the smart grids	Х			NO		1,66	
1	2	New technological developments in smart grids.		х		NO		1,66	2
2	3	Load demand management	Х			NO		1,66	
2	4	Case study		х		NO		1,66	6
3	5	Energy storage management and integration of renewable energies.	x			NO		1,66	
3	6	Distributed Energy Resources		х		NO		1,66	6

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2	29							
14 2	28	CONTINUOUS EVALUATION TEST		х	NO		1,66	5
14 2	27	Case Study			NO		1,66	
13 2	26	PLC Technologies: PRIME, Meters & More, G3-PLC		Х	NO		1,66	5
13 2	25	PLC Technologies: PRIME, Meters & More, G3-PLC			NO		1,66	
12 2	24	Last Mille communications Technologies: PLC vs Mobile Access		х	NO		1,66	5
12 2	23	Communications Network Architectures for the Smart Grid	х		NO		1,66	
11 2	22	CONTINUOUS EVALUATION TEST		х	NO		1,66	6
11 2	21	Electric Vehicles (EV)			NO		1,66	
10 2	20	Distribution Automation, Generation and Storage		х	NO		1,66	6
10 1	19	Advance Metering Applications (AMI)			NO		1,66	
9 1	18	Case Study		х	NO		1,66	7
9 1	17	Conventional Applications in Utility Operations: SCADA			NO		1,66	
8 1	16	Data Networking Technologies		x	NO		1,66	6
8 1	15	Elements of Data Communications Networks	х		NO		1,66	
7 1	14	CONTINUOUS EVALUATION TEST		x	NO		1,66	6
7 1	13	Smart grids projects (National and International), Regulation and practical examples	x		NO		1,66	
6 1	12	Case study		X	NO		1,66	6
	11				NO		1,66	
5 1	10	Management of electric mobility in smart grids.		x	NO		1,66	7
5 !	9	CONTINUOUS EVALUATION TEST	х		NO		1,66	
4	8	Case study		x	NO		1,66	6
4	7	Energy storage technologies	х		NO		1,66	

	<b>Total 1</b> (Hours of class plus student homework hours between weeks 1-14)					127,33			
15		Tutorials, handing in, etc							
16									
17		Preparation for the final assessment	Preparation for the final assessment exercise					3	
18									26,66
Subtotal 2						3	26,66		
Total 2 (Hours of class plus student homework hours between weeks							•		
15-18)						29			
TOTAL (Total 1 + Total 2. <u>Máximo 180 horas</u> )					157				

- 1. New technological developments in smart grids .
- 3. Management of electric mobility in smart grids .