



SUBJECT NAME: ELECTRICAL GRIDS MANAGEMENT		
BACHELOR IN ELECTRICAL POWER ENGINEERING	YEAR: 4º	SEMESTER: 2

This subject has 29 sessions distributed along 14 weeks. There could be complementary sessions any of those weeks. The pupils will have 2 sessions every week, except one week with three sessions.

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION OF THE SESSION	GROUP (X)		Place different of classroom (lab, etc)	Is it a 2 teacher session? Yes/no	WEEKLY JOBS FOR PUPILS		
			BIG	REDUCED			DESCRIPTION	PRESENTIAL HOURS	WORK HOURS (Max. 7h per week)
1	1	Subject Presentation A-1: Past and future of electrical grids				NO	Read the subject notes	1,66	7
1	2	A-2: Structure and activities of Spanish Electric Sector A-3: Key numbers of Spanish Electric Sector				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
2	3	B-1: Electrical facilities introduction				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
2	4	B-2: High voltage substations and equipment				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
3	5	B-2: High voltage substations and equipment				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
3	6	B-3: Power transformers				NO	Read the subject notes for the session and	1,66	

							prepare the self-appraisal exercises		
4	7	B-4: HV overhead lines				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
4	8	B-5: HV underground cables				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
5	9	B-6: Medium and low voltage grids				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
5	10	C-1: Electrical transmission and distribution grids management				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
6	11	Module A+B Exam				NO	First partial exam	1,66	7
6	12	C-2: Life-cycle of HV equipment				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
7	13	C-3: Electrical facilities engineering and construction				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
7	14	C-4: Electrical facilities maintenance				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
8	15	C-5: Electrical grids design				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
8	16	D-1: Planning and operation of electrical grids				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
9	17	Module C Exam				NO	Second partial exam	1,66	7
9	18	D-2: Electrical grids topology				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
10	19	D-3: Transmission and distribution operation procedures				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
10	20	D-4: Analysis and operation planning				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
11	21	D-4: Analysis and operation planning (cont.)				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
11	22	D-4: Analysis and operation planning (cont.)				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
12	23	D-5: Service quality of electrical grids				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
12	24	E-1: Neutral grounding of electrical grids				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	
13	25	E-2: Telecontrol & telemanagement topology				NO	Read the subject notes for the session and prepare the self-appraisal exercises	1,66	7
13	26	E-3: Electrical grids protection systems				NO	Read the subject notes for the session and	1,66	

						prepare the self-appraisal exercises			
14	27	Module D+E Exam				NO	Third partial exam	1,66	
14	28	Module D+E Exam				NO	Third partial exam	1,66	
	29	Visit to a demonstration centre of MV equipment			Manufacturer	NO		1,66	
							Subtotal 1	48,33	98
							Total 1 (Presential and working hours for pupils during weeks 1-14)		146
15		Recoups, helping lessons, jobs, etc						10	
16		Prepare for the exams and exams themselves						3	
17								15	
18									
							Subtotal 2	3	25
							Total 2 (Presential and working hours for pupils during weeks 15-18)		28
TOTAL (Total 1 + Total 2. maximum 180 hours)								174	