



<b>DENOMINACIÓN ASIGNATURA: Digital systems applied to electrical power engineering</b>		
<b>GRADO: Bachelor in Electrical Power Engineering</b>	<b>CURSO: 3º</b>	<b>CUATRIMESTRE: 2º</b>

PLANIFICACIÓN SEMANAL DE LA ASIGNATURA									
SEMANA	SESIÓN	DESCRIPCIÓN DEL CONTENIDO DE LA SESIÓN	GRUPO (marcar X)		Indicar espacio distinto de aula (aula informática, audiovisual, etc.)	Indicar SI/NO es una sesión con 2 profesores	TRABAJO SEMANAL DEL ALUMNO		
			GRANDE	PEQUEÑO			DESCRIPCIÓN	HORAS PRESENCIALES	HORAS TRABAJO (Max. 7h semana)
1	1	Introduction. Digital electronic fundamentals (1)	x				Work on the proposed topics	1,66	2
1	2	Digital electronic fundamentals (2)		x			Work on the proposed topics	1,66	
2	3	Combinational systems. Binary arithmetics	x				Work on the proposed topics	1,66	4
2	4	Introduction to the implementation on FPGAs. Quartus II		x	Aula Virtual		Work on the proposed topics	1,66	
3	5	Sequential systems. Registers and counters	x				Work on the proposed topics	1,66	4
3	6	Design and implementation of a digital circuit on FPGA		x			Work on the proposed topics	1,66	
4	7	Capstone project 1	x		Lab/Aula virtual		Work on the capstone project	1,66	7
4	8	Capstone project 1		x	Lab/Aula virtual		Work on the capstone project	1,66	
5	9	Capstone project 1	x		Lab/Aula virtual		Work on the capstone project	1,66	4
5	10	Capstone project 1		x	Lab/Aula virtual	YES	Work on the capstone project	1,66	

6	11	Introduction to microcontrollers. Introduction to C programming language (1)	x				Work on the proposed topics	1,66	
6	12	Capstone project 1		x	Lab/Aula virtual	YES	Work on the capstone project	1,66	4
7	13	Introduction to C programming language C (2). I/O and timers	x				Work on the proposed topics	1,66	
7	14	Get started with Energia		x	Lab/Aula virtual		Work on the proposed topics	1,66	7
8	15	Serial communication	x				Work on the proposed topics	1,66	
8	16	Examples and exercises		x	Lab/Aula virtual		Work on the proposed topics	1,66	4
9	17	PWM and A/D	x				Work on the proposed topics	1,66	
9	18	Examples and exercises		x	Lab/Aula virtual		Work on the proposed topics	1,66	7
10	19	Interruptions	x				Work on the proposed topics	1,66	
10	20	Examples and exercises		x	Lab/Aula virtual		Work on the proposed topics	1,66	
10	21	Examples and exercises		x	Lab/Aula virtual		Work on the proposed topics	1,66	6
11	22	Examples and exercises	x		Lab/Aula virtual		Work on the proposed topics	1,66	
11	23	Examples and exercises		x	Lab/Aula virtual		Work on the proposed topics	1,66	7
12	24	Capstone project 2	x		Lab/Aula virtual		Work on the capstone project	1,66	
12	25	Capstone project 2		x	Lab/Aula virtual		Work on the capstone project	1,66	4
13	26	Capstone project 2	x		Lab/Aula virtual		Work on the capstone project	1,66	
13	27	Capstone project 2		x	Lab/Aula virtual	YES	Work on the capstone project	1,66	7
14	28	Capstone project 2	x		Lab/Aula virtual		Work on the capstone project	1,66	
14	29	Capstone project 2		x	Lab/Aula virtual	YES	Work on the capstone project	1,66	7
<b>Subtotal 1</b>								<b>48,14</b>	<b>74</b>
<b>Total 1 (Horas presenciales y de trabajo del alumno entre las semanas 1-14)</b>								<b>122,14</b>	
15		Recuperaciones, tutorías, entrega de trabajos, etc						7	
16		Preparación de evaluación y evaluación						3	21
17									
18									
<b>Subtotal 2</b>								<b>3</b>	
<b>Total 2 (Horas presenciales y de trabajo del alumno entre las semanas 15-18)</b>								<b>31</b>	
<b>TOTAL (Total 1 + Total 2. Máximo 180 horas)</b>								<b>153,14</b>	