



DENOMINACIÓN ASIGNATURA: ELECTRONIC SYSTEM DESIGN		
GRADO: INDUSTRIAL ELECTRONICS AND AUTOMATION	CURSO: 4º	CUATRIMESTRE: 1º

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	X			NO	Theoretical concepts study	1,66	3
1	2	Bus connection (I): Concepts and architecture. Historic evolution	X			NO	Theoretical concepts study	1,66	
2	3	Bus connection (II): Historic evolution and commercial examples. Exercises	X			NO	Theoretical concepts study	1,66	3
2	4	Storage Systems (I): Magnetic, Optic and Semiconductor-based solutions	X			NO	Theoretical concepts study	1,66	
3	5	Storage Systems (II): Exercises	X			NO	Theoretical concepts study	1,66	5
3	6	AD/DA Conversion	X			NO	Theoretical concepts study	1,66	
4	7	AD/DA Conversion exercises	X			NO	Solve proposed exercises	1,66	7
4	8	Parallel communication	X			NO	Solve proposed exercises Exam study	1,66	

5	9	Exam 1	X			NO	Theoretical concepts study Exam study	1,66	7
5	10	Synchronous Serial Communication: Main concepts, I2C and SPI	X			NO	Theoretical concepts study	1,66	
6	11	Asynchronous Serial Communication (I): Main concepts, UART, RS-232 and RS-485	X			NO	Theoretical concepts study	1,66	5
6	12	Asynchronous Serial Communication (II): RS-485, USB, Firewire, Transducers and Error detection	X			NO	Theoretical concepts study	1,66	
7	13	Asynchronous Serial Communication (III): Modems, ADSL, Ethernet	X			NO	Theoretical concepts study	1,66	7
7	14	Serial Communication exercises	X			NO	Solve proposed exercises Exam study	1,66	
8	15	Exam 2	X			NO	Theoretical concepts study Exam study	1,66	7
8	16	Wireless communication (I): Main concepts, Infrared communication (IrDA), RF-based communication (Bluetooth)	X			NO	Theoretical concepts study	1,66	
9	17	Wireless communication (II): RF-based communication (WiFi, ZigBee y RFID)	X			NO	Theoretical concepts study	1,66	5
9	18	Communication Exercises	X			NO	Solve proposed exercises	1,66	
10	19	Representation Systems: Paper and video-based	X			NO	Theoretical concepts study	1,66	7
10	20	Representation Systems exercises	X			NO	Solve proposed exercises Exam study	1,66	
11	21	Exam 3	X			NO	Solve proposed exercises Exam study	1,66	7
11	22	Electronic system design. Mobile platforms based developments	X			NO	Theoretical concepts study	1,66	
12	23	Exercises (I)	X			NO	Solve proposed exercises	1,66	5
12	24	Exercises (II)	X			NO	Solve proposed exercises	1,66	5
13	25	R&D in Electronic Systems	X			NO	Theoretical concepts study	1,66	5
13	26	Exercises (III)	X			NO	Solve proposed exercises	1,66	5
14	27	Exercises (IV)	X			NO	Solve proposed exercises Exam study	1,66	7
14	28	Exam 4	X			NO	Exam study	1,66	7
	29							1,66	
Subtotal 1								48,33	82

Total 1 (<i>Horas presenciales y de trabajo del alumno entre las semanas 1-14</i>)							130,33
15		Recuperaciones, tutorías, entrega de trabajos, etc					49,67
16		Preparación de evaluación y evaluación					
17							
18							
Subtotal 2							
Total 2 (<i>Horas presenciales y de trabajo del alumno entre las semanas 15-18</i>)							49,67
TOTAL (<i>Total 1 + Total 2. Máximo 180 horas</i>)							180