uc3m | Universidad Carlos III de Madrid
Vicerrectorado de Estudios
Apoyo a la docencia y gestión del grado

COURSE: Computer Technology		
DEGREE:Computer Science and Engineering	YEAR: 1st	TERM: 2nd

WEEKLY PLANNING

WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Introduction. Information representation in digital systems	x			Get necessary material for the course (tools, etc.)	1,66	6,5
	2	Boolean Algebra and logic gates		x		Study current lessons	1,66	
2	3	Introduction to VHDL design	x			Study current lessons	1,66	6,5
	4	Exercises		x		Exercises	1,66	
3	5	Combinational circuits	x			Study current lessons	1,66	6,5
	6	Design of combinational circuits in VHDL. Examples		x		Study current lessons	1,66	
4	7	Exercises of combinational circuits	x			Exercises	1,66	6,5
	8	Exercises		x		Exercises	1,66	
5	9	Arithmetic circuits	x			Study current lessons	1,66	6,5
	10	Lab Practice 1		x	Lab	Design and develop the proposed circuit	1,66	
6	11	Exercises	x			Exercises	1,66	6,5
	12	Lab Practice 2		x	Lab	Design and develop the proposed circuit	1,66	
7	13	Flip-flops	x			Study current lessons	1,66	6,5
	14	Exercises		x		Exercises and review lessons for the exam	1,66	
8	15	Control I	x			Exercises and review lessons for the exam	1,66	6,5

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8	16	Exercises		x		Exercises	1,66	6,5
9	17	Registers and counters	x			Study current lessons	1,66	6,5
	18	Sequential circuits in VHDL. Examples		x		Study current lessons	1,66	
10	19	Finite State Machines	x			Study current lessons	1,66	6,5
	20	Exercises		x		Exercises	1,66	
11	21	Exercises	x			Exercises	1,66	6,5
	22	Lab Practice 3		x	Lab	Design and develop the proposed circuit	1,66	
12	23	Memories	x			Study current lessons	1,66	6,5
	24	Exercises		x		Exercises	1,66	
13	25	Introduction to digital systems	x			Study current lessons	1,66	6,5
	26	Lab Practice 4		x	Lab	Design and develop the proposed circuit	1,66	
14	27	Exercises	x			Exercises	1,66	6,5
	28	Exercises		x		Exercises and review lessons for the exam	1,66	
	29	Control II		x		Exercises and review lessons for the exam	1,66	3,25
						Subtotal 1	**48**	**94**
						Total 1 *(Hours of class plus student homework)*	**142**	
15		Tutorials, handing in, etc				Submit design exercises and lab work	3,6	-
16		Assessment				Prepare for final exam	4	10
17								
18								
						Subtotal 2	**8**	**10**
						Total 2 *(Hours of class plus student homework)*	**18**	
TOTAL (*Maximun 160 horas*)							**160**	

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