Universidad Carlos III de Madrid

COURSE: Integrated Circuits and Microelectronic	YEAR: 2019/20
DEGREE: Telecommunication Technology Engineering	TERM: 2nd

WEEKLY PLANNING								
Week	**Session**	**Description**	**Groups**		**Location**	**Weekly programming for student**		
			Lecture	Seminar		Description	Class hours	Homework hours
1	1	Introduction and basic concepts	X		Classroom	Acquire material (software tools, bibliography)	1,67	3
	2	Basic concepts		X	Classroom	Chapter study	1,67	
2	3	Combinational circuits	X		Classroom	Chapter study	1,67	4
	4	Sequential circuits (I)		X	Classroom	Chapter study	1,67	
3	5	Simulation	X		Classroom	Chapter study	1,67	5
	6	Demo Simulation. Prepare lab session 1		X	Computer room	Preparation of lab session 1	1,67	
4	7	VHDL problems	X		Classroom	Exercises	1,67	5
	8	**Lab session 1**		X	Lab.	Exercises	1,67	
5	9	Sequential Circuits (II). Design organization, loops, generics. Problems	X		Classroom	Chapter study	1,67	8
	10	Preparation of lab. Session 2		X	Computer room	Preparation of lab. Session 2	1,67	
6	11	VHDL problems	X		Classroom	Preparation of lab. Session 2	1,67	5
	12	**Lab session 2**		X	Lab.	Exercises	1,67	
7	13	Sequential Circuits (III)	X		Classroom	Exercises	1,67	6
	14	VHDL problems		X	Classroom	Exercises, preparation of lab. Session 3	1,67	
8	15	VHDL problems	X		Classroom	Exercises	1,67	7
	16	**Lab session 3**		X	Lab.	Preparation of lab. Session 3	1,67	
9	17	CMOS review (I). Design at transistor level	X		Classroom	Preparation of lab. session 4	1,67	8
	18	**Lab session 4**		X	Lab.	Excerces	1,67	
10	19	**Midterm Exam VHDL**	X		Classroom	Chapter study	1,67	5
	20	Integrated Circuits manufacturing, package		X	Classroom	Chapter study	1,67	
11	21	Layout	X		Classroom	Chapter study	1,67	
	22	Layout exercises		X	Classroom	Excerces	1,67	8
12	23	Demo Microwind	X		Computer room	Exercises	1,67	
	24	ICs exercises		X	Classroom	Exercises	1,67	8
13	25	**Midterm Exam ICs**	X		Classroom	Excerces	1,67	
	26	Test		X	Classroom	Exercises	1,67	6
14	27	Test exercises	X		Classroom	Exercises	1,67	
	28	Exercises		X	Classroom	Exam preparation	1,67	6
	29	Exercises	X		Classroom	Exercises	1,67	
SUBTOTAL							48,43	84
16-18		Assessment			Classroom		3	15
TOTAL							**150,43**	