



COURSE: Programming		
DEGREE: Bachelor in Communications Systems Engineering	YEAR: 1	TERM: 1

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	(Theory) Introduction Foundations of programming: computer architecture	X			NO	Configure the programming environment in the personal computer <i>Video of environment configuration</i>	1,66	3
	2	(Laboratory) Programming environment: configuration		X	Computer classroom	NO		1,66	
2	3	(Theory) Foundations of programming: the concept of algorithm and exercises	X			NO	Compile and execute the examples <i>Videos of algorithms, Java basics and data types</i>	1,66	7
	4	(Laboratory) Programming environment: configuration		X	Computer classroom	NO		1,66	
3	5	(Theory) Exercises on algorithms Java syntax: basics of the language • The Java class: concept and syntax	X			NO	Finalize programming exercises on data representation <i>One exercise evaluated individually</i>	1,66	7
	6	(Laboratory) Exercises on data representation		X	Computer classroom	NO		1,66	

4	7	(Theory) Exercises on algorithms Java syntax: basics of the language • Primitive data types, operators, output, Math	X			NO	Finalize programming exercises on data types and operators <i>One exercise evaluated individually and cross-evaluation</i>	1,66	7
	8	(Laboratory) Exercises on programming: data types and operators		X	Computer classroom	NO		1,66	
5	9	(Theory) Java syntax: standard classes	X			NO	Finalize programming exercises on strings of characters <i>Videos of conditional statements and looping statements</i> <i>Cross-evaluation and e-learning test</i>	1,66	7
	10	(Laboratory) Exercises on programming: strings of characters		X	Computer classroom	NO		1,66	
6	11	(Theory) Java syntax: flow control Exercises on algorithms	X			NO	Start programming exercises on loop sentences <i>One exercise evaluated individually</i>	1,66	7
	12	(Laboratory) Exercises on programming: flow control		X	Computer classroom	NO		1,66	
7	13	(Theory) Java syntax: flow control	X			NO	Finalize programming exercises on loop sentences <i>One exercise evaluated individually and cross-evaluation</i>	1,66	7
	14	(Laboratory) Exercises on programming: flow control		X	Computer classroom	NO		1,66	
8	15	(Theory) Exam in class	X			SI	Partial exam in class: control flow <i>Cross-evaluation and e-learning test</i>	1,66	7
	16	(Laboratory) Exam in class		X	Computer classroom	SI		1,66	
9	17	(Theory) Java syntax: arrays Exercises on programming: arrays	X			NO	Start programming exercises on arrays <i>Videos of arrays and functions</i>	1,66	7
	18	(Laboratory) Exercises on programming: arrays		X	Computer classroom	NO		1,66	
10	19	(Theory) Exercises on programming: arrays	X			NO	Finalize programming exercises on arrays <i>One exercise evaluated individually</i>	1,66	7
	20	(Laboratory) Exercises on programming: arrays Final Project: introduction		X	Computer classroom	NO		1,66	
11	21	(Theory) Exercises on programming: all	X			NO	Partial exam in class: arrays <i>One exercise evaluated individually and cross-evaluation</i>	1,66	7
	22	(Laboratory) Exam in class		X	Computer classroom	SI		1,66	
12	23	(Theory) Java syntax: functions	X			NO	Start with control methods <i>Cross-evaluation and e-learning test</i>	1,66	7

		Exercises on programming: all							
	24	(Laboratory) Final project: definition of control methods		X	Computer classroom	NO		1,66	
13	25	(Theory) Exercises on programming: all	X			NO	Finalize control methods	1,66	
	26	(Laboratory) Final project: definition of control methods		X	Computer classroom	NO		1,66	
14	27	(Theory) Exercises on programming: all	X			NO	Partial exam in class	1,66	
	28	(Laboratory) Exam in class		X	Computer classroom	SI		1,66	
15	29	(Theory) Doubts and issues	X			NO	Submission of final project	1,66	
15	30	(Laboratory) Final project: doubts and issues		X	Computer classroom	NO			
Subtotal 1								49,8	101
Total 1 (Hours of class plus student homework hours between weeks 1-14)								142,14	
16		Final exam	X				Prepare the final exam of the course	3	7
17									
18									
Subtotal 2								3	17
Total 2 (Hours of class plus student homework hours between weeks 15-18)								20	
TOTAL (Total 1 + Total 2. Maximum 180 hours)								170,8	