

COURSE: Programming		
DEGREE: Bachelor in Telecommunication Technologies 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	6,5
	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	6,5
	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	6,5
	6	(Laboratory) Exercises on data representation		X	Computer classroom	NO		1,66	
4	7	(Theory) Exercises on algorithms	X			NO	Finalize programming exercises on data types and operators	1,66	6,5

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

13	25	(Theory) Exercises on programming: all	X			NO	Finalize control methods	1,66	6,5
	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	6,5
	28	(Laboratory) Exam in class		X	Computer classroom	SI		1,66	
	29	Additional session (Laboratory) Final project: doubts and issues		X	Computer classroom	SI		1,66	3,25
Subtotal 1								48	94
Total 1 (Hours of class plus student homework hours between weeks 1-14)								142	
15		Tutorials,handing in,etc						3,6	-
16		Final exam	X				Prepare the final exam of the course	4	10
17									
18									
Subtotal 2								8	10
Total 2 (Hours of class plus student homework hours between weeks 15-18)								18	
TOTAL (Total 1 + Total 2. <u>Maximum 180 hours</u>)								160	