

<b>COURSE: Programming</b>		
<b>DEGREE: Bachelor's Degree in Data Science and Engineering</b>	<b>YEAR: 1st</b>	<b>TERM: 1st</b>

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer classroom, audio-visual classroom)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOME-WORK HOURS
1	1	<b>1. Introduction to programming</b>	X				Aula Global tests: computer architecture Weekly assignments (individual): algorithms	1.66	4
2	2	<b>2. Data types</b>	X				Aula Global tests: data types and variables. Weekly assignments (individual): flow diagrams	1.66	5
	3	<b>1. Introduction to programming</b> Correcting exercises: algorithms Exercises: flow diagrams		X	Computer room				
3	4	<b>3. Variables and constants</b>	X				Aula Global tests: Variables and operators (I) Weekly assignments (in pairs): variables and operators	1.66	5
	5	Correcting exercises: flow diagrams Introduction of the development environment Exercises: variables operators		X	Computer room				
4	6	<b>4. Control structures</b>	X				Aula Global tests: Variables and operators (II) Weekly assignments (in pairs): control structures (I)	1.66	6
	7	Correcting exercises: variables and operators. Exercises: control structures (I)		X	Computer room				
5	8	<b>4. Control structures</b>	X				Aula Global tests: control structures (I) Weekly assignments (in pairs): control structures (II)	1.66	6
	9	Correcting exercises: control structures (I) Exercises: control structures (II)		X	Computer room				

6	10	<b>5. Data structures</b>	X				Aula Global tests: control structures (II). Weekly assignments (in pairs): data structures (I).	1.66	6
	11	Correcting exercises: control structures (II) Exercises: data structures (I). Debugging.		X	Computer room			1.66	
7	12	<b>5. Data structures</b>	X				Aula Global tests: data structures (I). Mid-term exam preparation	1.66	7
	13	Correcting exercises: data structures (I).		X	Computer room			1.66	
8	14	<b>Mid-term exam</b>	X				Aula Global tests: data structures (II). Weekly assignments (in pairs): data structures (II).	1.66	7
	15	Exercises: data structures (II).		X	Computer room			1.66	
9	16	<b>6. Functions</b>	X				Weekly assignments (in pairs): data structures (III).	1.66	7
	17	Correcting exercises: data structures (II). Exercises: data structures (III).		X	Computer room			1.66	
10	18	<b>6. Functions</b>	X				Weekly assignments (in pairs): functions (I) Work on final project	1.66	7
	19	<b>Introduction to the final project</b> Correcting exercises: data structures (III). Exercises: functions (I)		X	Computer room			1.66	
11	20	<b>6. Functions</b>	X				Aula Global tests: functions (I) Weekly assignments (in pairs): functions (II) Work on final project	1.66	7
	21	Correcting exercises: functions (I) Exercises: functions (II)		X	Computer room			1.66	
12	22	<b>7. Libraries</b>	X				Aula Global tests: functions (II) Weekly assignments (in pairs): functions (III). Final project design	1.66	7
	23	Correcting exercises: functions (II) Exercises: functions (III)		X	Computer room	YES		1.66	
13	24	<b>8. Introduction to Object Oriented Programming</b>	X				Weekly assignments (in pairs): OOP Work on final project	1.66	7
	25	Correcting exercises: methods (III) Exercises: OOP		X	Computer room			1.66	
14	26	<b>9. Algorithms</b>	X				Work on final project	1.66	7
	27	Correcting exercises: OOP Work on final project		X	Computer room	YES		1.66	
15	28	Work on final project		X	Computer room	YES	Work on final project	1.66	7
	29	Work on final project		X	Computer room	YES		1.66	
<b>Subtotal1</b>								<b>48</b>	<b>95</b>
<b>Total 1</b> (Hours of class plus student homework hours between weeks 1-14)								<b>143</b>	

