



<b>COURSE: Programming</b>		
<b>BACHELOR'S DEGREE:</b> Bachelor's Degree in Mechanical Engineering	<b>YEAR: 1</b>	<b>SEMESTER: 1</b>

WEEKLY PROGRAMMING									
WEEK	SESSION	DESCRIPTION	GROUPS		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers: Maximum 4 sessions	GROUPS		
			LECTURE	SEMINAR			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS Maximum 7 H
1	1	Introduction Programming foundations: What computer programming means	X			NO		1,66	3
	2	Computer algorithms		X		NO		1,66	
2	3	Programming foundations: Design, coding, and testing	X			NO	Solving exercises on algorithms	1,66	7
	4	Exercises on algorithms		X		NO		1,66	
3	5	Programming foundations: Information and data representation	X			NO	Solving exercises on algorithms	1,66	7
	6	Exercises on algorithms		X		NO		1,66	

4	7	Introduction to the programming languages	X			NO	Solving exercises on algorithms Self-working to prepare the first partial exam	1,66	7
	8	Exercises on algorithms		X		NO		1,66	
5	9	Programming language syntax: data program and operators	X			NO	Self-working to prepare the first partial exam	1,66	7
	10	Development environment: compiling, debugging and execution		X	Computer lab	NO		1,66	
6	11	First midterm exam Test about programming foundations	X			NO	Setting up development environment	1,66	7
	12	Coding exercises: data program and operators		X	Computer lab	NO		1,66	
7	13	Programming language syntax: advanced data structures	X			NO	Solving coding exercises	1,66	7
	14	Coding exercises: advanced data structures		X	Computer lab	NO		1,66	
8	15	Programming language syntax: selection statements	X			NO	Solving coding exercises	1,66	7
	16	Coding exercises: selections statements		X	Computer lab	NO		1,66	
9	17	Programming language syntax: iteration statements	X			NO	Solving coding exercises	1,66	7
	18	Coding exercises: loops		X	Computer lab	NO		1,66	
10	19	Programming language syntax: selection and iteration statements (examples)	X			NO	Solving coding exercises Self-working to prepare the second partial exam	1,66	7
	20	Coding exercises: Nested control statements		X	Computer lab	NO		1,66	
11	21	Programming language syntax: subprograms	X			NO	Self-working to prepare the second partial exam	1,66	7
	22	Coding exercises: Nested control statements		X	Computer lab	NO		1,66	

12	23	Programming language syntax: subprograms	X			NO	Solving coding exercises	1,66	7
	24	Coding exercises: subprograms		X	Computer lab	NO		1,66	
13	25	Second midterm exam Test about the programming language syntax	X			NO	Solving coding exercises	1,66	7
	26	Coding exercises: subprograms		X	Computer lab	NO		1,66	
14	27	Questions and doubts	X			NO	Solving coding exercises	1,66	7
	28	Coding exercises: subprograms		X	Computer lab	NO		1,66	
15	29	Questions and doubts	X			NO		1,66	
<b>Subtotal 1</b>								<b>48,14</b>	<b>94</b>
<b>Total 1</b>								<b>142,14</b>	

15								9	
16									
17		Final exam	X			NO	Prepare final exam	3	<b>8</b>
18									
							<b>Subtotal 2</b>	<b>3</b>	<b>17</b>
							<b>Total 2</b>	20	
<b>TOTAL (Total 1 + Total 2)</b>									<b>162,14</b>