



<b>SUBJECT: PROGRAMMING</b>		
<b>DEGREE: ELECTRONIC INDUSTRIAL AND AUTOMATIC ENGINEERING</b>	<b>YEAR: 1ST</b>	<b>SEMESTER: 1ST</b>

WEEKLY SCHEDULE									
WEEK	SESSION	DESCRIPTION	GROUP				WEEKLY WORK		
			MAGISTRAL	REDUCED			DESCRIPTION	MAGISTER HOURS	WORK OUT OF CLASS (HOURS)
1	1	Presentation Basic concepts: Computer. Programming methodologies. Programming Languages Algorithms, program, instructions	x					1,66	5
1	2	Basic concepta Programming Structured programming		x			Reinforcement about methodologies, programs, algorithms, instructions and pseudocode	1,66	

		Object Oriented Programming Algorithms, programs, instructions							
2	3	C Language C program structure C basic instructions Input/Output using pseudocode Exercises in pseudocode	x				Solving basic problems using pseudocode	1,66	5
2	4	Editing and compiling. Turbo C Examples in Turbo C		x			Solving basic problems in C using Turbo C	1,66	
3	5	C elements Data types Control structures IF, SWITCH Introducing sentences	x				Solving basic problems using pseudocode	1,66	5
3	6	Functions in C Declaring and using functions Calling functions Starting first Problem about basic instructions		x			Solving presented exercises	1,66	
4	7	Control structures WHILE, DO WHILE, FOR	x				Solving basic problems using pseudocode	1,66	5
4	8	First Problem about basic instructions		x			First Problem date due	1,66	

5	9	Functions declaring Functions calling Variables in memory Static data types Structured data types	x				Reinforcement of the weekly studied concepts.	1,66	
5	10	Functions declaring Functions calling Starting second exercise: Functions		x			Solving programs	1,66	5
6	11	Arrays and strings Dynamic memory	x				Reinforcement of the weekly studied concepts.	1,66	
6	12	Arrays and strings exercises Second exercise: Functions		x			Second problem date due	1,66	5
7	13	Pointers	x				Reinforcement of the weekly studied concepts.	1,66	
7	14	Pointer exercises Starting third exercise: arrays and strings		x			Solving proposed problems	1,66	5
8	15	Union, structs Dynamic memory	x				Reinforcement of the weekly studied concepts..	1,66	
8	16	Structs and unions exercises Third exercise: arrays and strings		x			Third problem date due	1,66	5

9	17	Recursivity	x				Reinforcement of the weekly studied concepts.	1,66	
9	18	Recursivity exercise Starting fourth exercise: Functions using strings, structs and pointers		x			Solving proposed problems	1,66	5
10	19	Dynamic structs Using dynamic structs	x				Reinforcement of the weekly studied concepts.	1,66	
10	20	Fourth exercise: Functions using strings, structs and pointers		x			Fourth problem date due	1,66	5
11	21	Files Register Accessing and using files.	x				Reinforcement of the weekly studied concepts.	1,66	
11	22	Starting fifth exercise: functions, arrays, strings, structs, pointers, recursivity, files		x			Solving proposed problems	1,66	5
12	23	File organisations: sequential, indexed Create, open, close, order, delete, modify, search	x				Reinforcement of the weekly studied concepts.	1,66	5
12	24	Fifth exercise: functions, arrays, strings, structs, pointers, recursivity, files		x			Solving proposed problems	1,66	
13	25	Direct organisation Create, open, close, order, delete, modify, search	x				Reinforcement of the weekly studied concepts.	1,66	5
13	26	Fifth exercise: functions, arrays, strings, structs, pointers, recursivity, files		x			Fifth problema date due	1,66	

14	27	Object Oriented Programming Objects, messages, classes Encapsulating, inheritance	x				Reinforcement of the weekly studied concepts.	1,66	5
14	28	1-2-3-4-5 exercises		x			Exercises exam	1,66	
	29						SUBTOTAL	1,66	
<b>Subtotal 1</b>								<b>48,33</b>	<b>70</b>
<b>Total 1 (Classes and weekly work)</b>								<b>118,33</b>	
15		Tutorials, other works							
16		Preparing evaluation and Exam						1,66	10
17									
18									
<b>Subtotal 2</b>								<b>50</b>	<b>80</b>
<b>Total 2 (Classes and weekly work)</b>									
<b>TOTAL (Total 1 + Total 2)</b>								<b>130</b>	