

<b>COURSE: PROGRAMMING</b>		
<b>DEGREE: ELECTRONIC INDUSTRIAL ENGINEERING AND AUTOMATIC</b>	<b>YEAR: 1ST</b>	<b>TERM: 1ST</b>

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Presentation. Basic Concepts. Algorithm, program, instructions, code lines	X				1,66	5,0
	2	Basic Concepts, pseudocode, ordinograms		X	computer		1,66	
2	3	Structured Programming.C Language. C Program structure. Libraries. Syntax. Basic instructions. Data types. I/O Basic functions: scanf, printf	X			I/O basic examples	1,66	5,0
	4	Pseudocde and ordinogram exercises		X	computer	Pseudocode and ordinogram examples	1,66	
3	5	I/O functions	X				1,66	5,0
	6	Introduction to dev cpp compiler. i/O basic examples		X	computer	I/O examples	1,66	
4	7	Control Structures: Selection. Conditions. Relational Operators. Arithmetic Operators. IF, IF ELSE, SWITCH sentences.	X				1,66	6,5
	8	Selection Sentences Exercises		X	computer	Selection examples	1,66	
5	9	Control Structures: Iterations. Iterative sentences: WHILE. DO WHILE	X				1,66	6,5
	10	Iteravtive sentences exercises. Introduction to first deliverable (algorithms in C)		X	computer	Iterative examples. Developing first deliverable.	1,66	
	11	Control Structures: Iterations. Iterative sentences: FOR	X				1,66	

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6	12	FOR sentence examples. First deliverable		X	computer	Iterative examples. Developing first deliverable.	1,66	6,5
7	13	C Functions: Local and global variables. Parameters. Return sentence.	X				1,66	6,5
	14	First deliver. Introduction to second deliverable (Functions)		X	computer	Functions examples. Developing second deliverable.	1,66	
8	15	First Continuous Evaluation Exam	X				1,66	6,5
	16	Exam solution. Developing second deliverable.		X	computer	Functions examples. Developing second deliverable.	1,66	
9	17	C Functions: Value and reference parameters. Arrays: declaring and using.	X				1,66	6,5
	18	Functions examples. Developing second deliverable.		X	computer	Functions examples. Developing second deliverable.	1,66	
10	19	Vectors. Bidimensional arrays. Strings. String.h library. Arrays in functions.	X				1,66	6,5
	20	Second deliver. Arrays examples. Introduction to third deliverable (arrays)		X	computer	Arrays examples. Developing third deliverable.	1,66	
11	21	Data structures. Access. Structs in functions.	X				1,66	6,5
	22	Structs examples. Developing third deliverable.		X	computer	Structs examples. Developing third deliverable.	1,66	
12	23	Arrays of structs. External storing. Files	X				1,66	6,5
	24	File examples. Developing third deliverable.		X	computer	Files examples. Developing third deliverable.	1,66	
13	25	Second Continuous Evaluation Exam	X				1,66	6,5
	26	Third deliver. Introduction to fourth deliverable (Structs)		X	computer	Developing fourth deliverable.	1,66	
14	27	Pointers	X				1,66	6,5
	28	Pointers examples. Developing fourth deliverable.		X	computer	Pointers examples. Developing fourth deliverable.	1,66	
	29	Developing fourth deliverable.		X	computer	Developing fourth deliverable.	1,66	3,25

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			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
<b>Subtotal 1</b>						<b>48</b>	<b>90</b>	
<b>Total 1 (Hours of class plus student homework)</b>						<b>138</b>		
15		Tutorials, handing in, etc				Deliverables exam	3,6	-
16		Assessment					4	10
17								
18								
<b>Subtotal 2</b>						<b>8</b>	<b>10</b>	
<b>Total 2 (Hours of class plus student homework)</b>						<b>18</b>		
<b>TOTAL (Maximun 160 horas)</b>							<b>155</b>	