



COURSE: PROGRAMMING		
DEGREE: GRADE IN INDUSTRIAL TECHNOLOGY ENGINEERING	YEAR: 1	TERM: 1

WEEKLY PLANNING								
WEEK	SESSION		GROUPS		Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	COMPUTER LAB		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS
1 Sep 16 th	1	Course Overview: Contents, bibliography, teaching materials, course planning, methodology Introduction to Units 1. Introduction to computer science and programming Unit 3. Introduction to Programming in C. Basic program structure. Variables and constants. Operators: arithmetic and assignment operators	x	Virtual Room	NO	Read Guide "How to study Unit 1 and 2" Read material for Unit 1	1.66	6.5
1 Sep 18 th	2	Computer Lab. Session 1. U3. Introduction to the DevC++ (Development Environment)		Virtual Room	NO	Download and install DevC++ (Our Developing Environment)	1.66	
2 Sep 23 rd	3	Unit 3. Simple data types. Operators, expressions and instructions. Relational operators. Logical Operators. Input and output instructions	x	Virtual Room	NO	Read material for Unit 2 Revise Unit 3 Prepare Lab Session 2.	1.66	6.5
2 Sep 25 th	4	Computer Lab. Session 2. T3. Structure and main characteristics of a C program.		Virtual Room	NO	Revise Lab Session 2 and complete any unfinished exercises	1.66	
3 Sep 30 th	5	Unit 4. Flow Control structures. Session 1 Conditional structures: if-else, switch	x	Virtual Room	NO	Revise Unit 4. Part 1. Problems: input and output instructions	1.66	6.5
4 Oct 5 th Oct 6 th	6	Computer Lab. Session 3.T4. Conditional structures if-else, switch		Presencial	NO	Understand and complete all the proposed exercises	1.66	

4 Oct, 7 th	7	Unit 4. Flow Control structures. Session 2. Loops Loop instructions: for, while and do-while	x	Virtual Room	NO	Revise Unit 4. Part 2. Problems: control structures	1.66	6.5
4 Oct, 9 th	8	Computer Lab. Session 4. T4. Loops.		Virtual Room	NO	Revise Lab Session and complete any unfinished exercises	1.66	
5 Oct, 14 th	9	Unit 4. Flow Control structures. Session 3. Control structure nesting Exercises (Magic number)	x	Virtual Room		Revise Unit 4. Exercises' about control structures	1.66	6.5
6 Oct, 19 th Oct, 20 th	10	Computer Lab. Session 5. T4. Nested control flow and loops: Exercises.		Presencial.	NO	Understand and complete all the proposed practical exercises	1.66	
6 Oct 21 st	11	Unit 5. Functions. Session 1 Parameters: call by value. Pointer type. Parameters: call by reference. Scope of variables in functions: Library functions and standard C libraries	x	Virtual Room	NO	Revise Unit 5. Part 1 Problems: functions	1.66	6.5
6 Oct, 23 th	12	Computer Lab. Session 6a. T5. Functions (Parsons)		x Virtual Room	NO	Revise Lab Session and complete any unfinished exercises	1.66	
7 Oct, 28 th	13	Unit 5. Functions. Session 2 Pointer type. Parameters: call by reference. Scope of variables in functions: Library functions and standard C libraries	x	Virtual Room	NO	Revise Unit 5. Part 2. Parameters: call by reference	1.66	6.5
8 Nov, 3 nd	14	Computer Lab. Session 6b. T5. Functions		Presencial.	NO	Understand and complete all the proposed practical exercises	1.66	
8 Nov, 4 th	15	Unit 6. Advanced Data Types. Session 1. Arrays Introduction: structured vs. simple data types. Arrays: definition and use. Arrays as function parameters. Character strings	x	Virtual Room	NO	Revise Unit 6. Part 1	1.66	7
8 Nov, 6 th	16	Computer Lab. Session 7 T5. Arrays I (Parsons)		x Virtual Room	NO	Revise Lab Session and complete any unfinished exercises	1.66	
9 Nov, 9 th Nov, 10 th	17	Computer Lab. Session 8. T6. Arrays II. (LibroMix)		Presencial		SESION 29. Revise Lab Session and complete any unfinished exercises		
9 Nov, 11 st	18	Unit 6. Arrays: Exercises (Polution)	x	Virtual Room		Revise Units 3, 4, 5, 6.	1.66	6.5
10 Nov, 16 th Nov, 17 th	19	First Continuous Assessment Exam (20% of the final grade)		Presencial	NO	Revise Lab Session and complete any unfinished exercises	1.66	
10 Nov, 18 th	20	Unit 6. Advanced Data Types. Session 2. Structures Structures: definition and use. Arrays of structures. Structures as function parameters	x	Virtual Room	NO	Revise Unit 6. Part 2	1.66	6.5
10 Nov, 20	21	Computer Lab. Session 10. U6. Structures (I)		Virtual Room	NO	Revise Lab Session and complete any unfinished exercises	1.66	

11 Nov, 25 th	22	Ejercicios de Estructuras (Discografía)	X	Virtual Room		Reading of the corresponding chapters. Problems of structures	1.66	13
11 Nov, 27 th	23	Computer Lab. Session 11. Arrays of structures (II)		x Virtual Room	YES	Revise Lab Session and complete any unfinished exercises	1.66	
12 Dic, 2 nd	24	Unit 7. Search, Sort and Merge Algorithms.	x	Virtual Room	NO	Revise Unit 7	1.66	6.5
12 Dic, 4 th	25	Computer Lab. Session 12. Search, Sort and Merge Algorithms: Exercises		x Virtual Room	YES	Revise Lab Session and complete any unfinished exercises	1.66	
13 Dic, 9 th	26	Arrays, Structures and Sort. Exercises (e-learning)	X	Virtual Room	NO	Problems: structures and search and sort algorithms Exam Exercises'	1.66	6.5
13 Dic, 11 st	27	Resolución de Dudas de la práctica		Virtual Room.	YES	Revise Lab Session and complete any unfinished exercises	1.66	
14 Dic, 16 th	28	Unit 2 Software and Hardware Unit 8. Advanced topics	X	Virtual Room	NO	Reading of the corresponding chapters	1.66	6.5
14 Dic, 18 th	29	Second Continuous Assessment Exam. (20% of the final grade).		Virtual Room	YES	Revise Lab Session and complete any unfinished exercises	1.66	

Subtotal 1 **48.1** **97.5**

Total 1 (Hours of class plus student homework hours between weeks 1-14)

145.64

16								
17		Exam preparation and exam					4	10
18								

Subtotal 2 **4** **10**

Total 2 (Hours of class plus student homework hours between weeks 15-18)

14

TOTAL (Total 1 + Total 2.)							48.1	159,6
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