



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

This is a preliminary version. Final dates of continuous assessment exams to be confirmed on the first day of class

WEEKLY PLANNING								
WEEK	SESSION		GROUPS		Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	PRACTICE/ COMPUTER LAB		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS
1	1 16 Sept.	Course presentation (30')	X - online		NO		1,66	5 H
1	2 17 Sept.	Computer Lab 1. Introduction to the Matlab development environment		X - online	NO		1,66	
2	3 22 Sept.	Unit 1. Introduction to computer science and programming	X - online		NO		1,66	5 H
2	4 23 Sept.	Computer Lab 2. Basic elements of a program		X - PRESENCIAL	NO	Download and install DevC++ (Our Developing Environment)	1,66	
3	5 29 Sept.	Unit 2. Basic elements of a program	X - online		NO	Read material for Unit 2 Revise Unit 3 Prepare Lab Session 2.	1,66	5 H
3	6 30 Sept.	Computer Lab. 3. Debugging a program		X - online	NO	Revise Lab Session 2 and complete any unfinished exercises	1,66	

4	7 6th Oct.	Unit 3. Flow Control structures. Session 1. Alternative structures	X - online		NO	Revise Unit 4. Part 1. Problems: input and output instructions	1,66	5 H
4	8 7th Oct.	Computer Lab. 4. If and switch		X - online	NO	Understand and complete all the proposed exercises	1,66	
5	9 13th Oct.	Unit 3. Flow Control structures. Session 2. Loops	X - online		NO	Revise Unit 4. Part 2. Problems: control structures	1,66	5 H
5	10 14th Oct.	Computer Lab. 5. Loops		X - online	NO	Revise Lab Session and complete any unfinished exercises	1,66	
6	11 20th Oct.	Unit 4. Matrices	X - online			Revise Unit 4. Exercises' about control structures	1,66	5 H
6	12 21th Oct.	Computer Lab 6. Matrices and nested loops		X - online	YES	Understand and complete all the proposed practical exercises	1,66	
7	13 27th Oct.	Unit 5. Structured data types: structs and tables	X - online		NO	Revise Unit 5. Part 1 Problems: functions	1,66	5 H
7	14 28th Oct.	Continuous assessment exam 1. (Contents units 1-4)		X - PRESENCIAL	YES	Revise Lab Session and complete any unfinished exercises	1,66	
8	15 3rd Nov.	Unit 6. Functions	X - online		NO	Revise Unit 5. Part 2. Parameters: call by reference	1,66	5 H
8	16 4rd Nov.	Computer Lab 7. Functions and structures		X - online	YES	Understand and complete all the proposed practical exercises	1,66	
9	17 10th Nov.	Unit 7. Search sort and merge algorithms	X - online		NO	Problems :structures	1,66	5 H
9	18 11th Nov.	Computer Lab 8. Search algorithms		X - online	YES	Revise Lab Session and complete any unfinished exercises	1,66	
10	19 17th Nov.	Exercises to prepare CA exam 2	x				1,66	5 H
10	20 18th Nov.	Continuous assessment exam 2. (Contents units 5-7)		PRESENCIAL	NO	Revise Lab Session and complete any unfinished exercises	1,66	
11	21 24th Nov.	Final project presentation	X - online		YES	Revise Units 3, 4, 5, 6.	1,66	5 H
11	22 25th Nov.	Final Project 1		X - online	NO	Revise Lab Session and complete any unfinished exercises	1,66	
12	23 1st Dec.	Unit 8. Files	X - online			Reading of the corresponding chapters. Problems :search and sort algorithms	1,66	5 H
12	24 2nd Dec.	Final project 2		x- online	YES	Revise Lab Session and complete any unfinished exercises	1,66	
12	Extra TBD	Final project 3		x- online				

13	25 8th Dec	Exercises to prepare final exam	X - online		NO	Reading of the corresponding chapters.	1,66	5 H	
13	26 9th Dec	Final project 4		x-PRESENCIAL	YES	Revise Lab Session and complete any unfinished exercises	1,66		
14	27 15th Dec	Final project evaluation sessions	X - online		NO	Reading of the corresponding chapters. Problems :search and sort algorithms	1,66	5 H	
14	28 16th Dec	Final project evaluation sessions		x-PRESENCIAL	YES		1,66		
15		No activities planned for week 15						5 H	
							Subtotal 1	49.8	99
Total 1 (Hours of class plus student homework hours between weeks 1-14)								148.8	
16									
17		Exam preparation and exam					4	20	
18									
							Subtotal 2	4	20
Total 2 (Hours of class plus student homework hours between weeks 15-18)								24	
TOTAL (Total 1 + Total 2.)								172,8	