uc3m | Universidad Carlos III de Madrid
Vicerrectorado de Estudios
Apoyo a la docencia y gestión del grado

COURSE: PROGRAMMING TECHNIQUES		
DEGREE: APPLIED MATHEMATICS AND COMPUTING	YEAR: 1	TERM: 2

WEEKLY PLANNING

WEEK	SESSION	DESCRIPTION	TEACHING (mark X)			SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS	teachers		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Presentation of the course **T0.Presentation and course goals.** **T1.Basics of C++ languages.**	x		1	online	Set up the environment on your personal computer	1.66	6.5
	2	Editing and compiling basic programs.		x	1	online		1.66	
2	3	**T2. Compound data type**	x		1	online	Solving proposed problems about Control flow statements and loops	1.66	6.5
	4	Editing and compiling basic programs.		x	1	online		1.66	
3	5	**T2. Compound data type**	x		1	online	Solving proposed problems arrays, pointers, and strings	1.66	6.5
	6	Editing and compiling programs about compound data type		x	1	online		1.66	
4	7	**T3. Functions** **T4. Errors and Exceptions handling**	x		1	online	Solving proposed problems handling errors and exceptions	1.66	6.5
	8	Exercises about Functions declaring, Functions calling and errors handling		x	1	online		1.66	

5	9	**T5. User Defined Types (OOP)**	x		1	online	Solving proposed problems about user defined types	1.66	6.5
	10	Exercises about user defined types.		x	1	online		1.66	
6	11	**T5. User Defined Types (OOP)**	x		1	online	Solving proposed problems about user defined types	1.66	6.5
	12	Exercises about user defined types.		x	1	online		1.66	
7	13	**FIRST MID-TERM EXAM**	x		2	online	Study for the first mid-term exam	1.66	6.5
	14	Exam solution Presentation of the Lab case		x	1	online		1.66	
8	15	**T6. Input/Output Streams**	x		1	online	Solving proposed problems about input/output streams, Work with the Lab case	1.66	6.5
	16	Exercises about input/output streams.		x	1	online		1.66	
9	17	**T7. Dynamic Memory management**	x		1	online	Solving proposed problems about dynamic memory management. Work with the Lab case	1.66	6.5
	18	**Exercises about DMM DISCUSSION LAB CASE**		x	2	face to face		1.66	
10	19	**T8. Generic Programming**	x		1	online	Solving proposed problems about Generic programming. Work with the Lab case	1.66	6.5
	20	Exercises about generic programming and OOP.		x	1	face to face		1.66	
11	21	**T9. Containers, iterators, and algorithms**	x		1	online	Solving proposed problems about Containers, iterators, and algorithms. Work with the Lab case	1.66	6.5
	22	Exercises about containers, iterators, and algorithms.		x	1	online		1.66	
12	23	**T9. Containers, iterators, and algorithms**	x		1	online	Solving proposed problems about Containers, iterators, and algorithms. Work with the Lab case	1.66	6.5
	24	**Exercises about Containers, iterators, and algorithms LAB CASE DISCUSSION**		x	2	online		1.66	
13	25	**T9. Containers, iterators, and algorithms**	x		1	online	Solving proposed problems about Containers, iterators, and algorithms. Work with the Lab case	1.66	6.5
	26	Exercises about Containers, iterators, and algorithms		x	1	online		1.66	

14	27	**ORAL EXAM OF THE LAB CASE**	x		2	face to face	Study for the oral exam of the lab case.	1.66	6.5
	28	**ORAL EXAM OF THE LAB CASE**		x	1	face to face		1.66	
							Subtotal 1	**46**	**91**
		Total 1 (Hours of class plus student homework)						**137**	
15		Tutorials, handing in, etc		x	1	face to face		2.00	-
16									
17									
18		Assessment						4	14
							Subtotal 2	**6**	**14**
		Total 2 (Hours of class plus student homework)						**20**	
TOTAL (Maximun 160 horas)								**157**	