uc3m | Universidad Carlos III de Madrid

Vicerrectorado de Estudios Apoyo a la docencia y gestión del grado

COURSE: Linear Algebra		
DEGREE: Applied Mathematics and Computing	YEAR: 1	TERM: 1

	WEEKLY PLANNING							
	S	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM	WEEKLY PROGRAMMING FOR STUDENT		
W E E K	E S I O N		L E C T U R E S	S E M I N A R S	FOR SESSION (Computer class room, audio-visual class room)	DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Complex numbers	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	2	Exercises on complex numbers		Х		Solving exercises suggested by the teacher	1,66	
2	3	Complex numbers	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	4	Exercises on complex numbers		Х		Solving exercises suggested by the teacher	1,66	
3	5	Systems of linear equations	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	6	Exercises on systems of linear equations		Х		Solving exercises suggested by the teacher	1,66	
4	7	Systems of linear equations	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	8	Exercises on systems of linear equations		Х		Solving exercises suggested by the teacher	1,66	
5	9	Matrix algebra and the LU factorization	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	10	Exercises on matrix algebra and the LU factorization. MID-TERM EXAM ON THE MATERIAL EXPLAINED IN WEEKS 1-4		Х		Solving exercises suggested by the teacher	1,66	0,5
6	11	Matrix algebra and the LU factorization	Х			Study and understanding of the topics explained in the lecture	1,66	6,5

WEEKLY PLANNING								
	S	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM	WEEKLY PROGRAMMING FOR STUDENT		
W E E K	E S I O N		L E C T U R E	S E M I N A R	FOR SESSION (Computer class room, audio-visual class room)	DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
	12	Exercises on matrix algebra and the LU factorization		Χ		Solving exercises suggested by the teacher	1,66	
7	13	Determinants	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	14	Exercises on determinants		Χ		Solving exercises suggested by the teacher	1,66	
8	15	Vector spaces in applied settings	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	16	Exercises on vector spaces in applied settings		Χ		Solving exercises suggested by the teacher	1,66	
9	17	Vector spaces in applied settings	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	18	Exercises on vector spaces in applied settings		Χ		Solving exercises suggested by the teacher	1,66	
10	_	Linear transformations	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
10	7(1)	Exercises on linear transformations. MID-TERM EXAM ON THE MATERIAL EXPLAINED IN WEEKS 5-9.		Х		Solving exercises suggested by the teacher	1,66	
11	21	Inner product spaces: norms and orthogonality	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	22	Exercises on inner product spaces, norms and orthogonality		Х		Solving exercises suggested by the teacher	1,66	0,5
12	23	Inner product spaces: norms and orthogonality	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
14	24	Exercises on inner product spaces, norms and orthogonality		Х		Solving exercises suggested by the teacher	1,66	0,5
13	25	Orthogonal and unitary matrices	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	26	Exercises on orthogonal and unitary matrices		Х		Solving exercises suggested by the teacher	1,66	
14	27	The QR factorization	Х			Study and understanding of the topics explained in the lecture	1,66	6,5
	28	Exercises on the QR factorization		Χ		Solving exercises suggested by the teacher	1,66	
	29	Review and solving supplementary exercises	Х			Preparing final exam	1,66	3,25

	WEEKLY PLANNING							
	S		TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
W E E K	E	DESCRIPTION	L S E E C M T I U N R A E R S S	DESCRIPTION		CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)	
					•	Subtotal 1	48	94
	Total 1 (Hours of class plus student homework)					142		
15		Tutorials, handing in, etc			<u> </u>	Preparing final exam	3,6	-
16						Preparing final exam	5,5	
17 18		Assessment					4	10
						Subtotal 2	8	10
	Total 2 (Hours of class plus student homework)					1	8	
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