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

COURSE: MECHANICS OF STRUCTURES		
DEGREE: BACHELOR IN ELECTRICAL POWER ENGINEERING	YEAR: 2nd	TERM: 1st

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		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	TOPIC 1. FORCE SYSTEM AND EQUILIBRIUM	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about force systems and equilibrium	1.66	6.5
	2	Exercises related to session 1		X	NO	Exercises and questions related to topic 1	1.66	
2	3	TOPIC 2. REACTION FORCES	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about reaction forces.	1.66	6.5
	4	Exercises related to topic 2		X	NO	Exercises and questions related to topic 2	1.66	
3	5	TOPIC 3. MASS GEOMETRY	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about mass geometry	1.66	6.5
	6	Exercises related to topic 3		X	NO	Exercises and questions related to topic 3	1.66	
4	7	TOPIC 4. INTERNAL FORCES (I)	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about internal forces	1.66	6.5
	8	Exercises related to topic 4		X	NO	Exercises and questions related to topic 4	1.66	

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5	9	TOPIC 5. INTERNAL FORCES (II)	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about internal forces	1.66	6.5
	10	LABORATORY 1: INTERNAL FORCES DIAGRAMS		X	YES	Lab work 1	1.66	
6	11	TOPIC 6. INTERNAL FORCES (II)	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about internal forces	1.66	6.5
	12	Exercises related to topics 5 and 6		X	NO	Exercises and questions related to topics 5 and 6	1.66	
7	13	TOPIC 7. TRUSS STRUCTURES (I)	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about truss structures	1.66	6.5
	14	Exercises related to topic 7 (I)		X	NO	Exercises and questions related to topic 7	1.66	
8	15	ASSESSMENT EXAM	X		NO	Continuous assessment exam (topic 1 -6)	1.66	6.5
	16	Exercises related to topic 7 (II)		X	NO	Exercises and questions related to topic 7	1.66	
9	17	TOPIC 8. CABLE STRUCTURES	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about cable structures	1.66	6.5
	18	Exercises related to topic 8		X	NO	Exercises and questions related to topic 8	1.66	
10	19	TOPIC 9. DEFORMABLE BODY	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about deformable body	1.66	6.5
	20	LABORATORY 2: TENSILE TEST		X	YES	Lab work 2	1.66	
11	21	TOPIC 10. CROSS-SECTION STRENGTH (I)	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about cross-section strength	1.66	6.5
	22	Exercises related to topic 9		X	NO	Exercises and questions related to topic 9	1.66	

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12	23	TOPIC 11. CROSS-SECTION STRENGTH (II)	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about cross-section strength	1.66	6.5
	24	Exercises related to topic 10 and 11		X	NO	Exercises and questions related to topic 10 and 11	1.66	
13	25	TOPIC 12. CROSS-SECTION STRENGTH (III)	X		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about cross-section strength	1.66	6.5
	26	LABORATORY 3: FLEXURAL TEST ON BEAMS		X	YES	Lab work 3	1.66	
14	27	Exercises related to topic 10 and 11	X		NO	Exercises and questions related to topic 10 and 11	1.66	6.5
	28	LABORATORY 4: SPAGUETTI STRUCTURE		X	YES	Lab work 4	1.66	
	29	REVIEW OF THE SUBJECT	X		NO	Solve continuous assessment	1.66	3.25
						Subtotal 1	**48**	**94**
						Total 1 *(Hours of class plus student homework)*	**142**	

15		Tutorials, handing in, etc					3.6	-
16 17 18		Assessment					4	10
						Subtotal 2	**8**	**10**
						Total 2 *(Hours of class plus student homework)*	**18**	

TOTAL (*Maximun 160 horas*)	**160**

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