## uc3m Universidad Carlos III de Madrid

Vicerrectorado de Estudios Apoyo a la docencia y gestión del grado

## COURSE: MECHANICS OF STRUCTURES

DEGREE: BACHELOR IN INDUSTRIAL TECHNOLOGIES ENGINEERING	YEAR: 2nd	TERM: 2nd

	WEEKLY PLANNING										
	s		TEACHING (mark X)		SPECIAL ROOM	WEEKLY PROGRAMMING FOR STUDENT					
W E K	E S I O N	DESCRIPTION	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	TOPIC 1. FORCE SYSTEM AND EQUILIBRIUM	х		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		Х	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		Х	NO	Exercises and questions related to topic 2	1.66				
3	5	TOPIC 3. MASS GEOMETRY	х		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about mass geometry	1.66	6.5			
	6	Exercises related to topic 3		Х	NO	Exercises and questions related to topic 3	1.66				
4	7	TOPIC 4. INTERNAL FORCES (I)	х		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about internal forces	1.66	6.5			
	8	Exercises related to topic 4		Х	NO	Exercises and questions related to topic 4	1.66				

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5	9	TOPIC 5. INTERNAL FORCES (II)	х		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about internal forces	1.66	6.5			
	10	LABORATORY 1: INTERNAL FORCES DIAGRAMS		х	YES	Lab work 1	1.66				
6	11	TOPIC 6. INTERNAL FORCES (II)	х		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		х	NO	Exercises and questions related to topics 5 and 6	1.66				
7	13	TOPIC 7. TRUSS STRUCTURES (I)	х		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about truss structures	1.66	6.5			
	14	Exercises related to topic 7 (I)		Х	NO	Exercises and questions related to topic 7	1.66				
	15	ASSESSMENT EXAM	Х		NO	Continuous assessment exam (topic 1 -6)	1.66	6.5			
8	16	Exercises related to topic 7 (II)		Х	NO	Exercises and questions related to topic 7	1.66	6.5			
9	17	TOPIC 8. CABLE STRUCTURES	х		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about cable structures	1.66	6.5			
	18	Exercises related to topic 8		Х	NO	Exercises and questions related to topic 8	1.66				
10	19	TOPIC 9. DEFORMABLE BODY	х		NO	Personal work: basic knowledge acquisition and fundamental concepts understanding about deformable body	1.66	6.5			
	20	LABORATORY 2: TENSILE TEST		Х	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		Х	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		х	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		Х	YES	Lab work 3	1.66			
14	27	Exercises related to topic 10 and 11	х		NO	Exercises and questions related to topic 10 and 11	1.66	6.5		
	28	LABORATORY 4: SPAGUETTI STRUCTURE		Х	YES	Lab work 4	1.66			
	29	REVIEW OF THE SUBJECT	Х		NO	Solve continuous assessment	1.66	3.25		
						Subtotal 1	48	94		
Total 1 (Hours of class plus student homework)								42		

15	Tutorials, handing in, etc					3.6	-
16							
17	Assessment					4	10
18							
					Subtotal 2	8	10
	<b>Total 2</b> (Hours of class plus student homework)				1	.8	

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