

COURSE: Elasticity and Strength of Material

DEGREE: Grado en Ingeniería en Tecnologías Industriales

YEAR: 3rd

TERM: 1nd

WEEKLY PLANNING

WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	CHAPTER 1. INTRODUCTION TO SOLID MECHANICS Subject 1. Kinematic of deformable bodies	x			Previous reading of proposed themes Personal work about lesson	1.66	6.5
	2	Exercises resolution related with Subject 1		x		Personal work about Subject 1 Proposed exercises Discussion	1.66	
2	3	Subject 2. Equilibrium in deformable bodies	x			Previous reading of proposed themes Personal work about lesson	1.66	6.5
	4	Exercises resolution related with Subject 2		x		Personal work about Subject 2 Proposed exercises Discussion	1.66	
3	5	Subject 3: Constitutive equations	x			Previous reading of proposed themes Personal work about lesson	1.66	6.5
	6	Exercises resolution related with Subject 3		x		Personal work about Subject 3 Proposed exercises Discussion	1.66	
	7	Subject 4: Failure criteria	x			Previous reading of proposed themes Personal work about lesson	1.66	

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4	8	Exercises resolution related with Subject 4		x		Personal work about Subject 4 Proposed exercises Discussion	1.66	6.5
5	9	CHAPTER 2. ELASTICITY Subject 5: Differential formulation	x			Previous reading of proposed themes Personal work about lesson	1.66	6.5
	10	Exercises resolution related with Subject 5		x		Personal work about Subject 5 Proposed exercises Discussion	1.66	
6	11	Subject 6: Integral formulation and principles Continuum evaluation test	x			Previous reading of proposed themes Personal work about lesson	1.66	6.5
	12	Exercises resolution related with Subject 6		x		Personal work about Subject 6 Proposed exercises Discussion	1.66	
7	13	Subject 7: Two dimensional theory of Elasticity (I)	x			Previous reading of proposed themes Personal work about lesson	1.66	6.5
	14	Exercises resolution related with Subject 7 Laboratory session 1		x	x	Personal work about Subject 7 Proposed exercises Discussion Work in groups Analysis of data Report writing	1.66	
8	15	Subject 8: Two dimensional theory of Elasticity (II)	x			Previous reading of proposed themes Personal work about lesson	1.66	6.5
	16	Laboratory session 2			x	Work in groups Analysis of data Report writing	1.66	
	17	CHAPTER 3. Introduction to Strength of Materials Subject 9: Bending in beams (I)	x			Previous reading of proposed themes Personal work about lesson	1.66	

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9	18	Exercises resolution related with Subject 8		x		Personal work about Subject 9 Proposed exercises Discussion	1.66	6.5
10	19	Subject 10: Bending in beams (II)	x			Previous reading of proposed themes Personal work about lesson	1.66	6.5
	20	Laboratory session 3			x	Work in groups Analysis of data Report writing	1.66	
11	21	Subject 11: Torsion	x			Previous reading of proposed themes Personal work about lesson	1.66	6.5
	22	Exercises resolution related with Subject 9				Personal work about Subject 9 Proposed exercises Discussion	1.66	
12	23	Subject 12: Deflections of beams (I)				Previous reading of proposed themes Personal work about lesson	1.66	6.5
	24	Exercises resolution related with Subject 10				Personal work about Subject 10 Proposed exercises Discussion	1.66	
13	25	Subject 12: Deflections of beams (II)				Previous reading of proposed themes Personal work about lesson	1.66	6.5
	26	Exercises resolution related with Subject 11				Personal work about Subject 11 Proposed exercises Discussion	1.66	
14	27	See week 7				Work in groups Analysis of data Report writing	1.66	6.5
	28	Exercises resolution related with Subject 12				Personal work about Subject 12 Proposed exercises Discussion	1.66	

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	29	Laboratory session 4				Work in groups Analysis of data Report writing	1.66	3.25
Subtotal 1							48	94
Total 1 <i>(Hours of class plus student homework)</i>							142	
15		Tutorials, handing in, etc					3.6	-
16		Assessment					4	10
17								
18								
Subtotal 2							8	10
Total 2 <i>(Hours of class plus student homework)</i>							18	
TOTAL <i>(Maximun 160 horas)</i>							160	