

COURSE: Lightweight Structures		
DEGREE: Bachelor in Mechanical Engineering	YEAR: 4	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		
			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. 3,25h)
1	1	TOPIC 1: Bending of thin-walled beams	X		No	Study of basic concepts on bending of thin-walled beams	1.66	3.25
2	2	Exercises and questions related to concepts of session 1	X		No	Exercises and problems related to concepts of session 1	1.66	3.25
3	3	TOPIC 2: Torsion of thin-walled shafts	X		No	Study of basic concepts on torsion of thin-walled shafts	1.66	3.25
4	4	Exercises and questions related to concepts of session 3	X		No	Exercises and problems related to concepts of session 3	1.66	3.25
5	5	TOPIC 3: Basic notions of composite and sandwich beam theory (I)	X		No	Study of basic concepts on composite beams	1.66	3.25
6	6	TOPIC 3: Basic notions of composite and sandwich beam theory (II)	X		No	Study of basic concepts on sandwich beam theory	1.66	3.25
7	7	Exercises and questions related to concepts of session 5 and 6	X		No	Exercises and problems related to concepts of session 5 and 6	1.66	3.25
8	8	Partial Exam	X		No		1.66	3.25

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9	9	LAB 1: Numerical calculation of a torsion box	X		No	Report on lab session 1	1.66	3.25
10	10	LAB 2: Evaluation of different design solutions for a torsion box	X		No	Report on lab session 2	1.66	3.25
11	11	TOPIC 4: Introduction to the Theory of Plates (I)		X	INF	Study of basic concepts on the theory of plates	1.66	3.25
12	12	TOPIC 4: Introduction to the Theory of Plates (II)	X		No	Study of basic concepts on the structural behaviour of like-plate elements	1.66	3.25
13	13	Exercises and questions related to concepts of sessions 11 and 12	X		No	Exercises and problems related to concepts of session 11 and 12	1.66	3.25
14	14	Basic Notions on Shells Theory	X		No	Study of basic notions on the theory of shells	1.66	3.25
	15	Additional session: Discussion on the course works	X		No		1.66	

Subtotal 1 **25** **46**

Total 1 (Hours of class plus student homework) **70**

15		Tutorials, handing in, etc					1.8	-
16		Assessment					4	4
17								
18								

Subtotal 2 **6** **4**

Total 2 (Hours of class plus student homework) **10**

TOTAL (Maximun 83 horas) **80**

