



DENOMINACIÓN ASIGNATURA: ESTABILIDAD E INTEGRIDAD ESTRUCTURAL

POSTGRADO: MÁSTER UNIVERSITARIO EN MECÁNICA INDUSTRIAL
Profesor/a: José Fernández Sáez

ECTS: 4

CUATRIMESTRE: 1

CRONOGRAMA DE LA ASIGNATURA (versión detallada)

SEMANA	SESIÓN	DESCRIPCIÓN DEL CONTENIDO DE LA SESIÓN	GRUPO (marcar X)		Indicar espacio Necesario distinto aula (aula informática, audiovisual, etc..)	TRABAJO DEL ALUMNO DURANTE LA SEMANA		
			1	2		DESCRIPCIÓN	HORAS PRESENCIALES	HORAS TRABAJO Semana Máximo 7 H
1	1	TOPIC 1: General subject presentation. Basic concepts on structural stability	X		NO	Independent study to reinforce the concepts taught in the classroom	1,5	2
2	2	TOPIC 2: Buckling of beams and columns	X		NO	Independent study to reinforce the concepts taught in the classroom	1,5	5
3	3	Buckling of beams and columns. Problems solving	X		NO	Problems solving	1,5	5
4	4	TOPIC 3: Buckling of simple frames	X		NO	Independent study to reinforce the concepts taught in the classroom	1,5	5
5	5	Buckling of simple frames. Problem solving	X		NO	Problems solving	1,5	5
6	6	TOPIC 4: Basic concepts on stability of plates.	X		NO	Independent study to reinforce the concepts taught in the classroom	1,5	5



7	7	Basic concepts on stability of plates. Problems solving	X		NO	Problems solving	1,5	5
7		Personalized tutoring			NO		2	2
8	8	TOPIC 5: Basic concepts on Fracture Mechanics. Fracture criteria of cracked solids.	X		NO	Independent study to reinforce the concepts taught in the classroom	1,5	5
9	9	Fracture criteria of cracked solids. Problems solving	X		NO	Problems solving	1,5	5
10	10	TOPIC 6: Fatigue crack propagation.	X			Independent study to reinforce the concepts taught in the classroom	1,5	5
11	11	Fatigue crack propagation. Problems solving	X		NO	Problems solving	1,5	5
12	12	TOPIC 7: Damage tolerant design concepts	X			Independent study to reinforce the concepts taught in the classroom	1,5	5
13	13	Problems solving	X		NO	Problems solving	1,5	5
13		Personalized tutoring			NO		2	2



14	14	Homework presentation	X		NO	Homework presentation	1,5	5
14		Personalized tutoring			NO		3	2
SUBTOTAL							28 + 73 = 101	
15 - 16		Additional activities (tutoring, homework presentation, ...)					1.5	
17 - 18		Exam						15
TOTAL							117.5	