



DENOMINACIÓN ASIGNATURA: ACUSTICA Y VIBRACIONES		
POSTGRADO: MÁSTER UNIVERSITARIO EN INGENIERÍA DE MÁQUINAS Y TRANSPORTES Profesor/a: CRISTINA CASTEJÓN	ECTS: 60	CUATRIMESTRE: 2

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	LESSON 1 INTRODUCTION TO ACCOUSTICS AND VIBRATIONS	X			Study of the proposed topics. Review of general concepts	1,5	1
1	2	LESSON 2 FUNDAMENTALS OF ACOUSTICS (I)	X			Study subjects. Do the exercises in class	1,5	2
2	3	LESSON 2 FUNDAMENTALS OF ACOUSTICS (II)	X			Study subjects. Do the exercises in class	1,5	2
2	4	LESSON 2 FUNDAMENTALS OF ACOUSTICS (III). psychoacoustics	X			Study subjects. Do the exercises in class	1,5	2
3	5	LESSON 3 ACCOUSTICS MEASUREMENTS AND SENSORS (I)	X			Study of the elements of a measurement system for acoustic treatment	1,5	1
3	6	LESSON 3 ACCOUSTICS MEASUREMENTS AND SENSORS (II)	X			Study of the elements of a measurement system for acoustic	1,5	2



						treatment		
4	7	PRACTICE: A CRITICAL STUDY OF FREQUENCY IN PLATES	X			practice	1,5	2
4	8	LESSON 4 NOISE CONTROL	X			Study and application of control and isolation systems for noise	1,5	2
5	9	PRACTICE: SPECTRUM ANALYZER	X			Classroom practice, use of specific equipment and work completion	1,5	1+4*
5	10	LESSON 5 ACOUSTIC REGULATIONS	X			Study points of interest applicable regulations and work completion	1,5	1+4*
6	11	LESSON 6 VIBRATIONS I	X			Study of the fundamental concepts of vibration and performing work	1,5	1+ 4*
6	12	LESSON 6. VIBRATIONS II	X			Study of the fundamental concepts of vibration	1,5	2+4*
7	13	LESSON 7 VIBRATIONS MEASUREMENTS	X			Study of the elements of a measurement system for treatment of vibration signal	1,5	2+4*
7	14	LESSON 8 VIBRATIONS IN MACHINES	X			Study of the effect of vibrations on	1,5	2+4*



						machines		
8	15	LAB: MEASUREMENT AND TREATMENT OF VIBRATIONS IN MACHINES	X		Lab (NAVE 1.0C03)	Laboratory Practice. Signal measurement vibration test bench and conducting work	1,5	2+4*
8	16	EXERCISES: ANALYSIS OF VIBRATIONS (defectology)	X		computer room	Perform the exercises in class and the additional proposed	1,5	2+4*
9	17	PRACTISE: ANALYSIS OF VIBRATIONS	X		computer room	Learning about using tools to extract information from the vibration signal	1,5	2+4*
9	18	LESSON 9. NON-LINEAR VIBRATIONS (I)	X			Vibration Study of grip and slip	1,5	2+4*
10	19	LESSON 9. NON-LINEAR VIBRATIONS (II)	X			models of nonlinear vibrations	1,5	2+4*
10	20	EXERCISES: NON-LINEAR VIBRATIONS	X			Perform the exercises in class and the additional proposed	1,5	2+4*
11	21	CONFERENCES	X			Assimilation of the contents of the talk	1,5	1
11	22	CONFERENCE	X			Assimilation of the contents of the talk	1,5	1+4*



12	23	LESSON 10. NOISE CONTROL AND REGULATIONS	X			E Study points of interest applicable regulations and work completion	1,5	2+4*
12	24	LESSON 11. MODAL ANALYSIS	X			Studying the concepts of modal analysis and calculation	1,5	2+4*
13	25	PRESENTATIONS	X			presentation of the reports done by students	1,5	4
13	26	PRESENTATIONS	X			presentation of the reports done by students	1,5	1
14	27	PRESENTATIONS	X			presentation of the reports done by students	1,5	1
14	28	PRESENTATIONS	X			presentation of the reports done by students	1,5	1
TOTAL HORAS							42	48+60*

(*)trabajo evaluación continua