

<b>SUBJECT:</b> TÉCNIQUES OF Thermal, Mechanical and Thermo-mechanical Characterization		
<b>POSTGRADE:</b> MASTER IN Materials Science and Engineering	<b>ECTS:</b> 3	<b>TERM:</b> 1
<b>Teachers:</b> Mónica Campos Gómez, José Luis de la Fuente, Srdjan Milenkovic; Fco. Javier González Benito		

CRONOGRAMA DE LA ASIGNATURA (versión detallada)								
WEEK	SESSION	DESCRIPTION OF THE SESION CONTENT	GROUP		Indicate necessary space (informatics room, laboratory, etc.	WORK OF THE STUDENT DURING THE WEEK		
			1	2		DESCRIPTION	CLASSROOM HOURS	WORKING HOURS Week maximum 7 H
1	1	Introduction to the Thermal. Mechanical and thermo-mechanical Characterization Techniques	x		Classroom 2.3D05	Study of recommended bibliography, read slides and do exercises	1,5	4
1	2	Thermogravimetric Analysis	x		Classroom 2.3D02	Study of recommended bibliography, read slides and do exercises	1,5	4
2	3	Practical cases about Thermogravimetric analysis (Laboratory)	x		Laboratory (1.1E03)	Preparation of results report related to the practical cases	1,5	4
2	4	Differential thermal analysis DTA	x		Classroom 2.3D02	Study of recommended bibliography, read slides and do exercises	1,5	5

3	5	Practical cases about Differential thermal analysis (Laboratory)	x		Laboratory	Preparation of results report related to the practical cases	1.5	5
3	6	Differential Scanning Calorimetry (DSC)	x		Classroom 2.3D02	Study of recommended bibliography, read slides and do exercises	1,5	5
4	7	Study of thermal transitions and processes by DSC. (Laboratory)	x		Laboratory (1.1E03)	Study of recommended bibliography, read slides and do exercises	1.5	5
4	8	Dilatometry study of materials	x		Classroom 2.3D05	Study of recommended bibliography, read slides and do exercises	1,5	5
5	9	Practical cases about Dilatometry in materials (Laboratory)	x		Laboratory	Preparation of results report related to the practical cases	1,5	5
5	10	Mechanical tests of materials. Study of mechanical properties	x		Classroom 2.3D05	Study of recommended bibliography, read slides and do exercises	1,5	5
6	11	Fundamentals of yielding tests	x		Classroom 2.3D02	Study of recommended bibliography, read slides and do exercises	1,5	5
6	12	Practical cases about yielding tests (Laboratory)	x		Laboratory	Preparation of results report related to the practical cases	1,5	6

7	13	Fundamentals of tests about dynamic-thermomechanical analysis	x		Classroom 2.3D02	Study of recommended bibliography, read slides and do exercises	1,5	6
7	14	Practical cases about dynamic-thermomechanical analysis (Laboratory)	x		Laboratory	Study of recommended bibliography, read slides and do exercises	1,5	5
<b>TOTAL HORAS</b>							21	69