

COURSE GUIDE – short form

Academic year 2017-2018

Course name ¹	Thermal analysis advanced techniques (2)					Course code	6MATAE11		
Course type ²	DID	Category ³	DA	Year of study	II	Semester	I	Number of credit points	6

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴						
Field	Materials Engineering	Total	L	T	LB	P	IS	
Specialization	Advanced materials and experimental analysis techniques	42	28		14			70

Pre-requisites from the curriculum ⁵	Compulsory	It is not necessary
	Recommended	It is not necessary

General objective ⁶	Learning the main practical and theoretical techniques of advanced thermal analysis using concepts, theories, and methods of the analysis. Assimilation of basic knowledge concerning to material characteristics that can be evaluated using thermal analysis techniques.
Specific objectives ⁷	Knowledge transmission, the use of thermal analysis techniques for materials characterization, evaluation and interpretation of results.
Course description ⁸	<ol style="list-style-type: none"> 1. Thermogravimetry 2. Thermomagnetometry 3. Thermodilatometry 4. Thermooptometry 5. Combined thermal analyses methods 6. Other thermal analyses methods 7. Nanometric thermal analysis

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester	7	10%
	Activity during tutorials/laboratory works/projects/practical work	Week 1-14	40%
	Assignments Writing an essay		
Final assessment	Final assessment form ¹¹	Exam	50%
	Examination procedures and conditions: <ol style="list-style-type: none"> 1. theoretical question; open questions of course, working conditions: oral; percent of the final grade: 30% 2. theoretical question; open questions of course, working conditions: oral; percent of the final grade: 30% 3. theoretical question; open questions in the lab, working conditions: oral; percent of the final grade: 40% 		

Course organizer	Lect. Ph.D. Eng, Nicoleta-Monica LOHAN	
Teaching assistants	Lect. Ph.D. Eng, Nicoleta-Monica LOHAN	

¹Course name from the curriculum

² DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

³ DI – imposed, DO – optional, DL – facultative (from the curriculum)

⁴ Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)

⁵ According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶ According to 7.1 from the Course guide – extended form

⁷ According to 7.2 from the Course guide – extended form

⁸ Short description of the course, according to point 8 from the Course guide – extended form

⁹ For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

¹⁰ A minimum grade might be imposed for some assessment stages

¹¹ Exam or colloquium