COURSE GUIDE - short form

Academic year 2017-2018

Course name ¹	Thermal analysis advanced techniques (1)					Course	e 5MATAE	5MATAE08	
Course type ²	DID	Category ³	DA	Year of study	I	Semester		Number of credit points	6

Faculty	Materials Science and Engineering	Number of te	lumber of teaching and learning hours ⁴				
	Field Material Engineering		Ĺ	Т	LB	Р	IS
Specialization	Advanced materials and experimental analysis techniques	42	28		14		70

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

General objective ⁶	Description of the principles and methods of thermal analysis; highlighting the use of technical equipment for determining solid state transformations as a function on temperature. Using acquired knowledge to evaluate and optimal solving of the technical problems.
Specific objectives ⁷	Conveying of theoretical and practical knowledge necessary to use specific equipment, necessary to future specialists to adapt to the labour market dynamics.
Course description ⁸	 Introduction to thermal analysis Characterization of measuring instruments Characterization, interpretation and presentation of results Differential thermal analysis Differential scanning calorimetry Dynamo mechanical analysis

	Assessment	Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰	
Class tests along the semester			1	10%
Continuous	Activity during tutorials/laborate works/projects/practical work	ory	Week 1-14	40%
assessment	Assignments Writing an essay			
	Final assessment form ¹¹	Colloquium	Week 14	
Final assessment	Examination procedures and conditions: oral; percent of the 2. theoretical question; open question; open questions: oral; percent of the 3. theoretical question; open question; open questions: oral; percent of the conditions: oral; percent of the	50%		

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