COURSE GUIDE – short form

Academic year 2021-2022

Course name ¹	Therm	Thermal analysis advanced techniques (1)			Course co	ode	MATAE IA 110		
Course type ²	DID	Category ³	DA	Year of study	I	Semester	II	Numbe r of credit points	4

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴					
Field	Material Engineering	Total	L	Т	LB	Ρ	IS
Specialization	Specialization Advanced materials and experimental analysis techniques		28		14		54

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

Assesment			Sche- dule ⁹	Percentage in the final grade (minimum grade) ¹⁰
	Class tests along the semester			
	Home works			
A Final	Other activities			
assessment form ¹¹ : Colloquium	 Examination procedures and conditions: 1. theoretical question; open questions of course, working conditions: oral; percent of the final grade: 50% 2. theoretical question; open questions of course, working conditions: oral; percent of the final grade: 50% 	100%	Week 14	60%
B. Seminar	Activity during seminar			
C. Laboratory Acttvity during laboratory			40%	
D. Project Activity during project				

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

¹Course name 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

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

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