COURSE GUIDE – short form

Academic year 2024-2025

Course name ¹	Thermal analysis advanced techniques (2)				Course	code	MATAE IA 203		
Course type ²	DID	Category ³	DA	Year of study	2	Semester	3	Number of credit points	4

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴					
	Materials Engineering	Total	L	Т	LB	Р	IS
Specialization	Advanced materials and experimental analysis techniques	100	28		14		58

Pre-requisites from the	Compulsory	It is not necessary
curriculum⁵	Recommended	Thermal analysis advanced techniques (1)

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	 Thermomechanical analysis Thermodilatometry Dynamic mechanical analysis Thermogravimetry Thermomagnetometry Thermoptometry Simultaneous Thermal Analysis Other methods of thermal analysis Nano-thermal analysis

Assesment				Percentage in the final grade (minimum grade) ¹⁰
	Class tests along the semester			
	Home works			
A. Final	Other activities			
A. Final assessment form ¹¹ : Exam	 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% (mini- mum grade 5)	Exam period	60% (minimum 5)
B. Seminar	Activity during seminar			
C. Laboratory Activity during laboratory			40% (minimum 5)	
D. Project Activity during project				

Course organizer	Assist. prof. Ph.D. eng. Nicoleta Monica LOHAN	
Teaching assistants	Lect. Ph.D. Eng, Elena MATCOVSCHI	

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

- 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

- ¹⁰ A minimum grade might be imposed for some assessment stages
- ¹¹ Exam or colloquium

¹Course name from the curriculum

² DF - fundamental, DID - in the field, DS - specialty, DC - complementary (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, Pproject, IS-individual study)

 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