COURSE GUIDE - short form

Academic year 2024-2025

Course name ¹	Techniques of Analysis and Characterisation of Materials					Cours	le 2.IMat.06	2.IMat.06.DD	
Course type ²	DID	Category ³	DI	Year of study	2	2 Semester		Number of credit points	4

Faculty	Materials Science and Engineering		Number of teaching and learning hours ⁴						
Field Materials Engineering		Total	L	Т	LB	Р	IS		
Specialization	Specialization Engineering of Materials Processing		28		14		58		

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

General objective ⁶	Knowledge, identification and use of the main procedures and equipment necessary for the analysis and characterization of materials.
Specific objectives ⁷	Knowledge of materials analysis methods in order to achieve the correlations between composition, structure, properties and uses of materials. Rational choice of materials for various industrial and scientific applications and for the correct operation in service of parts or assemblies depending on the data obtained by various analysis techniques.
Course description ⁸	Properties of materials. Methods and equipment for the physical and chemical characterization of materials. Methods and equipment for mechanical and technological characterization.

	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 :	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)	Week 14	60 % (minimum 5)
B. Seminar	Activity during seminar			
C. Laboratory Activity during laboratory			40% (minimum 5)	
D. Project Activity during project				

Course organizer	Conf.univ.dr.ing. Nicoleta-Monica LOHAN	
Teaching assistants	Conf.univ.dr.ing. 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, Pproject, 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