

COURSE GUIDE – short form

Academic year 2024-2025

Course name ¹	Amorphous and Nanocrystalline Materials					Course code	3.SM.12.DS-2		
Course type ²	DS	Category ³	DO	Year of study	3	Semester	5	Number of credit points	4

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	Materials Science	100	28	-	14	-	58

Pre-requisites from the curriculum ⁵	Compulsory	-
	Recommended	-

General objective ⁶	Evaluation and optimal solution of technical problems related to amorphous and nanocrystalline materials, by applying concepts, theories, and experimental methods.
Specific objectives ⁷	Knowledge of the main processes for obtaining amorphous and nanocrystalline materials Characterization of the structure of amorphous and nanocrystalline materials Characterization of the physical-mechanical properties of amorphous and nanocrystalline materials
Course description ⁸	Amorphous materials. Nanocrystalline materials. Amorphous-nanocrystalline materials

Assesment		Schedule ⁹	Percentage in the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ :	Class tests along the semester	-	70 % (minimum 5)
	Homework	-	
	Other activities	-	
	Examination procedures and conditions: 1. Subject with open questions; tasks: answer to open questions; working conditions: oral; percent of the final grade 100 % Onsite/online evaluation	100 % (minimum 5) 14th week	
B. Seminar	Activity during seminar	-	
C. Laboratory	Activity during laboratory	30 % (minimum 5)	
D. Project	Activity during project	-	

Course organizer	Prof. dr. eng. Romeu Chelariu
Teaching assistants	Prof. dr. eng. Romeu Chelariu

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