

COURSE GUIDE – short form

Academic year 2021-2022

Course name ¹	Non-metallic materials					Course code	4SM14DS		
Course type ²	DS	Category ³	DO	Year of study	4	Semester	8	Number of credit points	5

Faculty	Faculty of Materials Science and Engineering	Number of teaching and learning hours ⁴						
Field	Materials Engineering	Total	L	T	LB	P	IS	
Specialization	Materials Science	125	28	-	28	-	69	

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	Use of basic knowledge (concepts, theories, methods) to explain and interpret physical, chemical and technological phenomena specific to materials engineering.
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Specific objectives ⁷	Clarification of concepts, theories and basic methods for evaluating technical and problem-solving related material processed in the field.
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Course description ⁸	Non-metallic materials Plastic materials: Obtaining plastics materials. Plastics materials processing. Ceramic materials. Refractory ceramic materials Chemical properties of refractory materials Silicon-based ceramic materials Carbon-based ceramic materials. Ceramic materials used in electronics
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Assesment			Schedule ⁹	Percentage in the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ :	Class tests along the semester	%		70% (minimum 5)
	Home works	20%	14 week	
	Other activities	%		
	Examination procedures and conditions: One subject in the course topics; oral presentation and answers to course specialty questions.	80% (minimum 5)	Session	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			30 % (minimum 5)
D. Project	Activity during project			% (minimum 5)

Course organizer	Lecturer Dr.Eng. Ramona Cimpoesu
Teaching assistants	Lecturer Dr.Eng. Ramona Cimpoesu

¹Course name from the curriculum

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

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

⁴Points 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