

# COURSE GUIDE – short form

Academic year 2024-2025

Course name <sup>1</sup>	<b>Non-metallic materials</b>				Course code	4.SM.15.DS-1			
Course type <sup>2</sup>	DS	Category <sup>3</sup>	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 <sup>4</sup>					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	Materials Science	125	28	-	28	-	69

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	
	Recommended	

General objective <sup>6</sup>	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 <sup>7</sup>	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 <sup>8</sup>	Non-metallic materials. Plastic materials:Obtaining plastics materials.Plastics materials processing.Ceramic materials.Refractory ceramic materialsChemical properties of refractory materialsSilicon-based ceramic materialsCarbon-based ceramic materials. Ceramic materials used in electronics
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Assesment			Schedule <sup>9</sup>	Percentage in the final grade (minimum grade) <sup>10</sup>
A. Final assessment form <sup>11</sup> :	Class tests along the semester	%		70% (minimum 5)
	Home works	20%	14 week	
	Other activities	%		
	Examination procedures and conditions: Two subjects 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	Assoc.Prof. Phd.Eng. Ramona Cimpoesu	
Teaching assistants	Assoc.Prof. Phd.Eng. Ramona Cimpoesu	

<sup>1</sup>Course name from the curriculum

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

<sup>3</sup> DI – imposed, DO –optional, DL – facultative (from the curriculum)

<sup>4</sup> 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)

<sup>5</sup> According to 4.1 – Pre-requisites - from the Course guide – extended form

<sup>6</sup> According to 7.1 from the Course guide – extended form

<sup>7</sup> According to 7.2 from the Course guide – extended form

<sup>8</sup> Short description of the course, according to point 8 from the Course guide – extended form

<sup>9</sup> For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

<sup>10</sup> A minimum grade might be imposed for some assessment stages

<sup>11</sup> Exam or colloquium