

COURSE GUIDE – short form

Academic year 2024 - 2025

Course name ¹	CHEMISTRY					Course code		1.ISI.02.DF	
Course type ²	DF	Category ³	DI	Year of study	1	Semester	1	Number of credit points	4

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

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

General objective ⁶	<ul style="list-style-type: none"> - Discipline is a basic component in the curriculum structure of the field area, its objectives being entirely among the objectives of the curriculum; - The main objective of the discipline involves learning, understanding and applying the theoretical and practical principles specific to Chemistry.
Specific objectives ⁷	<ul style="list-style-type: none"> - The discipline offers theoretical and practical knowledge in the field of Chemistry; - Presentation of basic theoretical concepts of Chemistry; - Developing the ability to solve exercises and problems of Chemistry; - Developing skills in practical / experimental activity in the Chemistry laboratory; - Developing the ability to evaluate student achievement over a given period of time.
Course description ⁸	Chemistry, fundamental science of nature and its role in engineer training. Basics of: the atom, chemical elements, chemical bonds, substances (inorganic and organic), mixtures of substances (solutions, colloids), water, electrochemistry, lubricants.

Assesment			Schedule ⁹	Percentage in the final grade (minimum grade) ⁹⁰
A. Final assessment form ¹¹ : colloquium	Class tests along the semester	0 %	-	70 % (minimum 5)
	Home works: 1	30 % (minimum 5)	week 7	
	Other activities	0 %	-	
	Examination procedures and conditions: - Colloquium: answers to the exam; Tasks: treating the theoretical topics and problem solving; Working conditions: written exam	70 % (minimum 5)	week 14	
B. Seminar	Activity during seminar			0 %
C. Laboratory	Activity during laboratory			30 % (minimum 5)
D. Project	Activity during project			0 %

Course organizer	Associate Professor PhD Eng. Emil Ioan MUREȘAN	
Teaching assistants	Associate Professor PhD Eng. Emil Ioan MUREȘAN	

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)

⁵According to 4.1 –Pre-requisites - from the Course guide – extended form

⁶According 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

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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