

COURSE GUIDE – short form

Academic year 2024-2025

Course name ¹	Surface corrosion					Course code	3.SM.15.DS-1		
Course type ²	DS	Category ³	DO	Year of study	3	Semester	6	Number of credit points	3

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	75	28	-	14	-	33	

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	Association of knowledge, principles and methods in the technical sciences of the field with the principles and methods used in the analysis and determination of corrosion processes
Specific objectives ⁷	Understanding the notion of corrosion of metallic materials Knowledge of methods for determining and measuring corrosion.
Course description ⁸	Electrochemical corrosion. The mechanism of electrochemical corrosion. Thermodynamics of the corrosion process. Kinetics of electrochemical corrosion Determination of corrosion current. Corrosion protection.

Assesment			Schedule ⁹	Percentage in the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ :	Class tests along the semester	%	14 week	70% (minimum 5)
	Home works	20%		
	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	Assoc.Prof. Phd.Eng. Ramona Cimpoesu	
Teaching assistants	Assoc.Prof. Phd.Eng. Ramona Cimpoesu	

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