

<b>Course ID:</b> HFH401	Cour	irse name: CORROSION			
Cycle: FIRST	Year	: FOURTH	Semester: VII	ECTS cre	dits: 3
Course status: ELECTIVE		<b>Total course hours: 45</b> Lectures: 30 Laboratory: 15			
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs			
Prerequisite for enrollment:		-			
Course aims:		The objectives of the course are to acquire basic knowledge about the mechanism, kinetics and thermodynamics of corrosion processes			
Thematic course units:		<ol> <li>Introduction. Definition and types of corrosion.</li> <li>Chemical corrosion of metals.</li> <li>Electrochemical corrosion of metals.</li> <li>Special types of corrosion.</li> <li>Mechanism of corrosion processes.</li> <li>Mechanism of chemical corrosion.</li> <li>Mechanism of electrochemical corrosion</li> <li>Thermodynamics of electrochemical corrosion.</li> <li>Potential-pH diagram. Corrosion of concrete.</li> <li>Corrosion of stone.</li> <li>Corrosion of ceramics and glass.</li> <li>Polymer destruction.</li> </ol>			
Learning outcomes	:	Knowledge: Acquired knowledge about corrosion, the laws of corrosion processes Skills: Students will be able to use exact methods as a basis for understanding corrosion processes. Competences: Application of knowledge from this subject to solve corrosion processes in other branches of chemistry and industry, as well as environmental protection.			
Teaching methodo	logy:	Lectures (oral presentation and interactive classes) Laboratory exercises			
Assessment metho and grading system	ds 1 <sup>1</sup> :	1.Class att2.Class act3.Midterm4.Final exa	Gradin Criteria endance ivities is im Total	g criteria Maximal score 5 15 2 × 20 40 100	Required score           3           8           2×11           22           55

<sup>&</sup>lt;sup>1</sup>The grading structure for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught as per Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton

Form SP2

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	Scores and grading				
	Score	Grade	Grade		
		(BiH)	(ECTS)		
	< 55	5	F, FX		
	55-64	6	Е		
	65-74	7	D		
	75-84	8	С		
	85-94	9	В		
	95-100	10	А		
	Mandatory literature:				
	1. Mladenović S., Korozija materijala, Tehnološkometalurški fakultet,				
	Beograd, 1990				
Literature <sup>2</sup> :	2. Sebenji E., Hakl L., Korozija metala, Tehnička knjiga, Beograd, 1980				
	3. Korać F., Gutić S., Herenda S., Ostojić J., Gojak-Salimović S.: Praktikum iz				
	korozije i zaštite (2017)				
	Supplementary literature:				
	1. P. W. Atkins, Physical Chemistry, Oxford University Press				

<sup>&</sup>lt;sup>2</sup>The Senate of the higher education institution, as an institution, or the Council of the organizational unit of the higher education institution, as a public institution, determines by a special decision, which is published on its website before the beginning of the academic year obligatory, mandatory and recommended textbooks and manuals, as well as other recommended literature based on which exams are prepared and taken as per Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton