



Course ID: HFHII2	Course name: CORROSION OF NONMETALLIC MATERIALS		
Cycle: SECOND	Year: FIRST	Semester: I	ECTS credits: 4
Course status: ELECTIVE		Total course hours: 60 Lectures: 45 Laboratory: 15	
Teaching participants:	Teachers and associates with expertise in the field to which the subject belongs		
Prerequisite for enrollment:	-		
Course aims:	Acquiring knowledge about corrosion and methods of corrosion testing of nonmetallic materials.		
Thematic course units:	<ol style="list-style-type: none"> 1. Corrosion of inorganic nonmetallic material 2. Corrosion stability of natural and artificial nonmetallic materials 3. Corrosion of concrete and cement mortars 4. Corrosion of stone, ceramics, glass, reinforcement in prestressed concrete 5. Corrosion of materials of organic origin 6. Polymer destruction 7. Destruction of trees 8. Testing and measurement of corrosion processes 9. Corrosion testing of inorganic nonmetallic materials 10. Corrosion testing of materials of organic origin 		
Learning outcomes:	<p>Knowledge: Acquired knowledge about the types and processes of corrosion, degradation and deterioration of nonmetallic materials.</p> <p>Skills: Students will be able to use it to understand degradation processes in nonmetallic, especially in advanced technology materials.</p> <p>Competences: Application of knowledge about the properties of nonmetallic materials in other branches of chemistry.</p>		
Teaching methodology:	Lectures (oral presentation and interactive classes) Laboratory exercises		
Assessment methods and grading system¹:	Grading criteria		
	Criteria	Maximal score	Required score
	1. Class attendance	5	3
	2. Class activities	15	8
	3. Midterms	2 × 20	2 × 11
4. Final exam	40	22	
Total	100	55	

¹The 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

	Scores and grading		
	Score	Grade (BiH)	Grade (ECTS)
	< 55	5	F, FX
	55–64	6	E
	65–74	7	D
	75–84	8	C
	85–94	9	B
	95–100	10	A
Literature²:	<p>Mandatory literature: 1. Mladenović S., Korozija materijala, Tehnološkometalurški fakultet, Beograd, 1990</p> <p>Supplementary literature: 1. V.I. Babej, N.S. Suharova, Struktura i svojstva polimernih pokritij, "Himija" Moskva, 1983 2. A. Đureković, Cement, cementni kompozit i dodaci za beton, Školska knjiga Zagreb, 1996 3. P. Petrovski, I. Bušatlić, Cementi i druga neorganska mineralna veziva, Zenica, 2006</p>		

²The 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