



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
Department of Chemistry

Form SP2

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Course ID: HOB205	Course name: NOMENCLATURE OF ORGANIC COMPOUNDS		
Cycle: FIRST	Year: SECOND	Semester: III	ECTS credits: 2
Course status: MANDATORY		Total course hours: 30 Lectures: 30 Laboratory: 0	
Teaching participants:	Teachers and associates with expertise in the field to which the subject belongs		
Prerequisite for enrollment:	-		
Course aims:	Introducing students to the naming of organic compounds. Trivial names and systematic method of IUPAC nomenclature.		
Thematic course units:	<ol style="list-style-type: none">1. Acyclic hydrocarbons2. Monocyclic and fused hydrocarbons3. The basic heterocyclic systems4. Substitution and radical-functional nomenclature5. Halogenated derivatives6. Azo compounds, hydrazine, diazonium group, azido, nitro and nitroso compounds7. Ethers, sulfides8. Carboxylic acids, sulfonic acids9. Esters, acid halides, acid anhydrides10. Amides, nitriles11. Aldehydes, ketones and derivatives12. Alcohols, phenols, thiols13. Amines and ammonium salts14. Sulfoxides and sulfones15. The stereochemical nomenclature, <i>E, Z, R, S</i>.		
Learning outcomes:	Knowledge: Learning how to name various classes of organic compounds, hydrocarbons, heterocycles, compounds with characteristic groups, and stereochemical nomenclature Skills: The student will be able to name complex structures of organic compounds using the rules in complex nomenclature rules for naming organic compounds. Competences: The acquired knowledge will be important for dealing with synthetic organic chemistry and for working in chemistry teaching.		
Teaching methodology:	Auditory lectures		

Assessment methods and grading system¹:	Grading criteria		
	Criteria	Maximal score	Required score
	1. Class attendance	5	3
	2. Class activities	-	-
	3. Midterms	50	27
	4. Final exam	45	25
	Total	100	55
	Scores and grading		
	Score	Grade (B&H)	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:</p> <ol style="list-style-type: none"> V. Rapić, NOMENKLATURA ORGANSKIH SPOJEVA, Školska knjiga-Zagreb, 1995. Marić, S., Horozić, E., Suljagić, J. Nomenklatura organskih spojeva, Tuzla 2019. H.A. Favre, W.H. Powell (2013). Nomenclature of organic chemistry: IUPAC recommendations and preferred names 2013. Royal Society of Chemistry. <p>Supplementary literature:</p> <ol style="list-style-type: none"> .P.C. Volhardt, N.E. Schore, ORGANSKA HEMIJA: struktura i funkcija, IV izdanje, Data status, Beograd, 2004. G.J. Leigh, (2011). <i>Principles of chemical nomenclature: a guide to IUPAC recommendations</i>. Royal Society of Chemistry. 		

¹ 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

² 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