

Course ID: HOB243	Course name: ORGANIC CHEMISTRY II					
Cycle: FIRST	Year	: SECOND	Semester: IV	ECTS credits: 6		
Course status: MANDAT(		DRY Total course hours: 90 Lectures: 30 Laboratory: 60		90		
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs				
Prerequisite for enrollment:		-				
Course aims:		The student will be introduced to the reactions of electrophilic addition at unsaturated carbon, additions at conjugate systems, substitutions on unsaturated C atom, free radical reactions as well rearrangement reactions.				
2. 3. 4. 5. 6. <b>Thematic course units:</b> 7. 8. 9. 10 11 12 13 14 15		Mecha additi 2. Additi 3. Additi 4. Subst Arom 5. Mecha substi 6. Electr hetero 7. Electr as ele 8. Nucle aroma 9. Polycy 10. Heter 11. Oxida 12. Free r 13. Molec 14. Rearr	, , , , , , , , , , , , , , , , , , , ,			

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Learning outcomes:	Knowledge: The student will be able to state and explain the main conditions for electrophilic addition reactions, electrophilic aromatic substitutions of molecular rearrangements and photochemical reactions as well as products obtained in the mentioned chemical reactions Skills: The student will be able to synthesize organic compounds and explain the mechanism of these syntheses. They will also be able to compare the conditions under which electrophilic addition reactions, electrophilic aromatic substitutions, molecular rearrangements and photochemical reactions take place and assess the specifics of those reactions. Competences: The student is able to independently solve problems based on correctly assessed and written mechanisms of organic reactions as well as practically synthesize organic compounds.		
Teaching methodology:	Auditory lectures and laboratory exercises		
Assessment methods and grading system <sup>1</sup> :	Criteria 1. Class attendance 2. Class activities 3. Midterms 4. Final exam Total Score	Grading criteria           Maximal score           5           10           45           40           100           res and grading           Grade           (B&H)           5           6           7           8           9           10	Required score           3           5           25           22           55           Grade           (ECTS)           F, FX           E           D           C           B           A
Literature <sup>2</sup> :	<ul> <li>Mandatory literature:</li> <li>1. Volhardt, K.P.C., Schore, N.E. (2004) ORGANSKA HEMIJA: struktura i funkcija, IV izdanje, Data status, Beograd, 2004</li> <li>2. Wade, L. G. (2017) ORGANSKA KEMIJA, Školska knjiga Zagred.</li> <li>3. Čopra-Janićijević, A., Klepo, L., Topčagić, A. (2013) PRAKTIKUM ORGANSKE HEMIJE, PMF, Sarajevo.</li> <li>4. Pine, S.H. (1994) ORGANSKA HEMIJA, Školska knjiga Zagreb</li> </ul>		

<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

 $<sup>^2</sup>$  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

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Suj	pplementary literature: 1. Maksimović, M., Čopra-Janićijević, A., Vidic, D., Topčagić, A., Klepo, L., Dizdar, M., Čulum D. (2019) OSNOVE ORGANSKE HEMIJE – Zbirka zadataka, PMF, Sarajevo.
	2. Maksimović, M. (2003) KARBOHIDROGENI-Zadaci i rješenja iz organske hemije, PMF, Sarajevo

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