

Course ID: HOB481	Course	e name: CHEMISTRY OF ORGANIC POLLUTANTS				
Cycle: FIRST	Year: F	OURTH	Semester: VIII	ECTS credits:3		
Course status: MANDA		ATORY	Total course hours: 45 Lectures: 30 Laboratory: 15			
Teaching		Teachers	ers and associates with expertise in the field to which			
participants:		the subject belongs				
Prerequisite for enrollment:		-				
Course aims:		Introducing students with the most significant organic pollutants of water, air and soil. Methods for determinations of organic pollutants.				
Thematic course units:		 organic pollutants. 1. Organic pollutants: organic polutanata. Types of pollution, 2. Structure, resources, properties, stability, solubility, toxicity, resistance to degradation, volatility, some bioaccumulation of pollutants: 3. POPs (persistent organic pollutants, pollutants). 4. Pesticides 5. Industrial chemicals 6. Polychlorinated biphenyls (PCBs) 7. Polycyclic aromatic hydrocarbons, (PAHs), 8. Mineral oil, total fats and oils 9. Phenols and phthalates 10. Soaps and detergents 11. Petroleum and its products 12. Some selected organic pollutants 13. Methods for determination of organic pollutants 				
Learning outo	comes:	Knowledg pollutants and the es Skills: The and fate of environm Competer pollutants remove th	ge: Acquisition of basic know s, characteristics of such com nvironment, as a way of iden rough this course, the studen of some of the most importan nent. nces: Instruct students on the s in human health, their iden nem.	ledge about organic pounds, impact on health tifying them it will learn about the type t organic pollutants in the e importance of organic tification and ways to		

Form SP2

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UNIVERSITY OF SARAJEVO- FACULTY OF SCIENCE Department of Chemistry

Teaching methodology:	Auditory lectures, laboratory exercises				
Assessment methods and grading system ¹ :	Criteria1.Class attendance2.Class activities3.Midterms4.Final examTotalScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScoreScore <td colspa<="" th=""><th>Grading criteria Maximal score 5 10 45 40 100 es and grading Grade (BiH) 5 6 7 8 9 10</th><th>Required score 3 5 25 22 55 Grade (ECTS) F, FX E D C B A</th></td>	<th>Grading criteria Maximal score 5 10 45 40 100 es and grading Grade (BiH) 5 6 7 8 9 10</th> <th>Required score 3 5 25 22 55 Grade (ECTS) F, FX E D C B A</th>	Grading criteria Maximal score 5 10 45 40 100 es and grading Grade (BiH) 5 6 7 8 9 10	Required score 3 5 25 22 55 Grade (ECTS) F, FX E D C B A	
Literature ² :	 Mandatory literature: Manahan, S. E. (2004) Fundamentals of Environmental Chemistry, 8th ed., CRC Press. Landis, W. G., Yu,M.H. (2004) Introduction to Environmental Toxicology: Impacts of Chemicals Upon Ecological Systems, 3rded., CRC Press. Crowl, D. A., Louvar, J. F. (2011) Chemical Process Safety: Fundamentals with Applications, 3rd ed., Prentice Hall. Supplementary literature: Tölgyessy, J. (1993) Chemistry and Biology of Water; Air and Soil: Environmental Aspects, Elsevier. Criddle, W. J., Ellis, G. P. (1990) Spectral & Chemical Characterisation of Organic Compounds: a Laboratory Handbook,3rd ed., John Wiley & Sons, New York. Ahuja, S. (2003) Chromatography and Separation Science (SST) 				

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

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