



Course ID: HOA366	Course name: SENSORS FOR POLLUTION MONITORING				
Cycle: FIRST	Year	: THIRD	Semester: VI	ECTS credits: 2	
Course status: MANDAT(DRY Total course hours: 30 Lectures: 30		30	
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs			
Prerequisite for enrollment:		-			
Course aims:		qualitative a environment techniques the choice for en	nd quantitative analys t. Students will be hat in modern times ha	sensors that are used for sis and monitoring of the introduced to sensory we become the methods of and the management and ten the environment.	
Thematic course u	nits:	 Piezoelect Electroch electroch Electroch modeling Chemical monitorin Metal sen Gas and in Pollutant 	nemistry of medicall nemical gas sensors. nemical sensors for en- g, development and app ly modified electro ng nsors based on strippin on-selective electrodes control techniques. ctrochemistry in the	or pollution monitoring. y important gases and nvironmental monitoring: plication. odes as environmental sensors.	
Learning outcome	s:	 Knowledge: Describe the possibilities of pollutant control using sensors. Analyze the application of sensors in environmental monitoring. Evaluate the effectiveness of pollutant control techniques. Skills: Select the most suitable sensor for application in pollutant control. Competences: Critically assess the need for interdisciplinary approach in the development and use of sensors in the 			

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	control of pollutants.					
Teaching methodology:	Method of oral presentation, method of conversation.					
	Grading criteria					
	Criteria	Maximal score	Required score			
	1. Class attendance	5	2			
	2. Class activities	5	3			
	3. Midterms	45	25			
	4. Final exam	45	25			
	Total	100	55			
Assessment methods	Scores and grading					
and grading system ¹ :	Score	Grade	Grade			
		(B&H)	(ECTS)			
	< 55	5	F, FX			
	55-64	<u> </u>	E			
	65-74 75-84	8	D C			
	85-94	<u> </u>	<u>с</u> В			
	95-100	10	A			
	Mandatory literature:					
	1. Turkušić E. Uvod u hemijske senzore i biosenzo					
	Sarajevo: Prirodno-matematički fakultet; 2012.					
Literature ² :						
	Supplementary literature:					
	1. Švancara I, Kalcher K, Walcarius A, Vytras K.					
	Electroanalysis With Carbon Paste Electrodes. Boca					
	Raton: CRC Press; 2012.					

 $^{^{1}}$ 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