

Course ID: HZOI13	Cours	Course name: PHYTOREMEDIATION OF TOXIC METALS			
Cycle: SECOND	Year:	FIRST	Semester: I	ECTS credits: 6	
Course status: ELECTIVE			<b>Total course hours</b> Lectures: 30 Laboratory: 60	s: 90	
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs <sup>[do not enter names in this section. Leave the</sup> wording as indicated in this section]			
Prerequisite for enrollment:		-			
Course aims:		Acquiring basic knowledge of remediation of contaminated sites (soils) using phytoremediation			
Thematic course u		of phy 2. Enviro 3. Total 4. Use of 5. Metal 6. Phyto 7. Phyto 8. Know 9. Phyto 10. Remo phyto 11. Induce 12. Phyto 13. Increa 14. Bioco 15. The legisla	vtoremediation onmental contaminat and bioavailable met f hyperaccumulating uptake and transloca remediation techniquest stabilization dedge test extraction val of heavy me extraction ed phytoextraction remediation of pollute sing plant tolerance to ncentration efficiency of the ation	plants ation in plants ues etals from the soil by d waters metals	
Learning outcomes	S:	state and phytoremedi the content improving th phytoremedi	ation of polluted sph of toxic heavy met ne efficiency of the pr ation. assess the adv	ision and principles of neres of the environment on als, explain the factors for rocess, and the conditions of vantages and disadvantages erimental phytoremediation	

Form SP2

## UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

	to reduce soil pollution, and analyze and apply legislation in				
	the field of environmental protection.				
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Teaching methodology:	Lectures (oral presentation of teachers - presentations) and				
Teaching methodology.	laboratory exercises (practical work)				
	Grading criteria				
	Criteria	Maximal score	Required score		
	1. Class attendance	5	3		
	2. Class activities*	15	8		
	3. Midterms	40	22		
	4. Final exam	40	22		
	Total	100	55		
Assessment methods	* Class activity is sccoredthrough the engagement of students in exercises.				
and grading system <sup>1</sup> :	Scores and grading				
and grading system	Score	Grade	Grade		
		(B&H)	(ECTS)		
	< 55	5	F, FX		
	<u> </u>	<u>6</u> 7	E		
	75-84	8	D C		
	85-94	<u> </u>	 B		
	95-100	10	A		
	Supplementary literature:				
	1. Willey N. Phytoremediation Methods and Reviews.				
		nation Methods	and Reviews.		
	Humana Press; 2007.				
	2. Macek T, Dowling	D, Mackova	M, editors.		
Literature <sup>2</sup> :	Phytoremediation and	l Rhizoremedia	ation. Springer		
	Verlag; 2006.				
	0	Calenaar	II adite of		
	3. McCutcheon SC,		JL, editors.		
	Phytoremediation: Transformation and Control of				
	Contaminants. John Wiley and Sons; 2003.				

 $<sup>^{1}</sup>$  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