



Form SP2

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UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID: HFHI05	Course name: D	ourse name: DEPLETED URANIUM IN ENVIRONMENT				
Cycle: FIRST	Year: FIRST	Semester: I	ECTS credits: 4			
Course status: ELECT	IVE	Total course hours: 60 Lectures: 45 Laboratory: 15				
Teaching participants	C.	Teachers and associates with expertise in the field to which the subject belongs				
Prerequisite for enrollment:	Radiochemist	Radiochemistry				
Course aims:		o the basic physico-chemical and radiochemical of uranium and depleted uranium, methods of detection tion, including the biological consequences of their				
Thematic course unit	Depleted uraniu Obtaining of dep Chemical charac Radiological cha Uranium toxicity Commercial app Impact of deplet Detection of dep distinguish natu	Uranium in nature Depleted uranium (DU) Obtaining of depleted uranium Chemical characteristics of depleted uranium Radiological characteristics of depleted uranium Uranium toxicity (health effects) Commercial application of depleted uranium Impact of depleted uranium on the environment Detection of depleted uranium in environmental samples (how to distinguish natural uranium from depleted) Monitoring of uranium and depleted uranium in the environment				
Learning outcomes:	chemical and ruranium, the or in the environm Skills: Perform uranium in envisame Competences: A for the determination of the determination of the competence of the determination of the determinat	Knowledge: Student will be able to understand and explain chemical and radiochemical properties of uranium, the uranium, the origin of uranium in nature, the origin of depin the environment Skills: Perform sampling and detection of the presence uranium in environmental samples and develop a monitorin same Competences: Application of radioanalytical and radiomet for the determination of depleted uranium in environmental suggestion of methods for DU removal-remediation				
Teaching methodolog	Auditory lect	Auditory lectures; Laboratory exercise; Field exercise				

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	Grading criteria				
		Criteria	Maximal score	Required score	
	1	Class attendance	5	3	
	2.	Class activities	15	8	
	3.	Midterms	2 × 20	2 × 11	
	4.	Final exam	40	22	
1.		Total	100	55	
Assessment methods	Scores and grading				
and grading system ¹ :	Score		Grade	Grade	
3 37			(B&H)	(ECTS)	
		< 55	5	F, FX	
		55-64	6	Е	
		65–74	7	D	
		75–84	8	С	
		85-94	9	В	
		95–100	10	A	
Literature ² :	 Supplementary literature: Alexandra C. Miller, (2006), Depleted Uranium, Properties, Uses And Health Consequences, CRC Press, W. D. Loveland, D. J. Morrissey, G. T. Seaborg (2005) Modern Nuclear Chemistry, John Wiley&Sons, USA E. Zovko, Z. Pujić, (2003), Radioaktivnost u prirodi, uran i osiromašeni uran, Prirodno matematički fakultet, Sarajevo M. Nuhanović (2016), Uran u okolinskim uzorcima, Prirodnomatematički fakultet, Sarajevo M. Jovanović, (1986), Kako da se zaštitimo od radioaktivnog zračenja, Medicinska knjiga, Beograd-Zagreb 				

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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