



Form SP2

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UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID: HAH407	Course name: SELECTED METHODS IN ANALYTICAL CHEMISTRY				
Cycle: FIRST	Year	: FOURTH	Semester: VII	ECTS credits: 3	
Course status: ELECTIVE			Total course hours: Lectures: 30 Laboratory: 15	45	
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs [do not enter names in this section. Leave the wording as indicated in this section]			
Prerequisite for enrollment:		-			
Course aims:		Acquisition of knowledge and laboratory skills from methods of separation and/or overconcentration of analytes (heavy metals) from samples of a complex matrix, and techniques in the analysis of species species			
Thematic course units:		 Methods of separation Separations in inorganic analysis Separation by precipitation Sequential extraction of certain elements from the complex samples Solid-phase extraction Reactions of masking and unmasking Separation with ion exchanger Knowledge test AAS: cold vapor technique Analysis of volatile elements (As, Se, Hg) Thermogravimetric method Thermogravimetric analysis (TGA) Differential thermogravimetry (DSC) 			
Learning outcomes	5:	The student will be able to: - state and explain the theoretical settings of the methods of separation and overconcentration of heavy metals from real samples, - analyze a given sample of a complex matrix on the content of species by applying appropriate separation methods as well as measurement techniques			
Teaching methodo	logy:	Lectures (oral presentation of teachers - presentations) and laboratory exercises (practical work)			

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	Required score			
	3			
	5			
	25			
	22			
	55			
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d grading				
Grade	Grade			
(B&H)	(ECTS)			
5	F, FX			
6	Е			
7	D			
8	С			
9	В			
10	A			
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2. Skoog DA, West DM, Holler FJ. Osnovi analitičko				
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Chichester: John Wiley and Sons; 1994.

and Sons; 1987-reprinted 1995.

4. Anderson R. Sample Pretreatment and Separation (Analytical Chemistry by Open Learning). John Wiley

Literature²:

Assessment methods and grading system¹:

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