

Course ID: HAH121	Cour	Course name: ANALYTICAL CHEMISTRY I				
Cycle: FIRST	Year	: FIRST	Semester: II	ECTS credits: 8		
Course status: MANDAT(DRY Total course hours: 105 Lectures: 45 Laboratory: 60				
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs				
Prerequisite for enrollment:		-				
Course aims:		The acquisition of basic knowledge and analytical labora skills in the field of qualitative analytical chemistry.				
Thematic course u	nits:	the composit - Buffers, pol predicting - Complex for complexes - Important of equilibriums - Calculating metal ions an - Precipitatio - Side reaction - The effect of solubility of t - The separat - Redox react - Electrocher potentials - The equilib in redox syst - Reactions w - Qualitative - Systematic	a, importance and role of analytical chemistry, on of the solution, the activity protic systems, ampholytes, acid-base reaction ming reactions, equilibriums in solutions of omplex compounds, side reactions in n the solutions of the complexes, nature of d ligands n reactions, solubility product ns and their impact on product solubility The construction of the complexes on the he precipitate ion of hydroxides and sulfides ions nical reactions, calculation of electrode			
Learning outcomes	5:	Acquired bas	sic knowledge and analy	ytical laboratory skills in		

Form SP2

UNIVERSITY OF SARAJEVO– FACULTY OF SCIENCE Department of Chemistry

Page **2** of **2**

	qualitative analytical chemistry.				
Teaching methodology:	Theoretical and practical teaching				
	Grading criteria				
	Criteria	Maximal score	Required score		
	1. Class attendance	5	3		
	2. Class activities	15	8		
	3. Midterm	40	22		
	4. Final exam	40	22		
	Total	100	55		
Assessment methods	Scores and grading				
and grading system ¹ :	Score	Grade	Grade		
		(B&H)	(ECTS)		
	< 55	5	F, FX		
	55-64	6	E		
	65-74	7	D		
	75-84	8	С		
	85-94	9	В		
	95-100	10	А		
	Mandatory literature:				
	1. J. Savić, M. Savić, Osnovi analitičke hemije, klasične				
Literature ² :	metode, Svjetlost, Sarajevo, 1987				
	Supplementary literature:				
	1. T. Janjić, Teorijski osnovi analitičke hemije, Naučna				
	knjiga, Beograd, 1980				

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