

Course ID: HAH232	Cour	rse name: ANALYTICAL CHEMISTRY II				
Cycle: FIRST	Year	: SECOND	Semester: III	ECTS credits: 6		
Course status: MANDAT(ORY	Total course hours: 105 Lectures: 30 Laboratory: 75			
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 basic knowledge and laboratory skills from the field of quantitative analytical chemistry – gravimetric analysis				
Thematic course units:		 Quantitative chemical analysis - General Errors in quantitative chemical analysis Standard deviation, calculations Confidence Interval, Q-, F-, and T-tests, calculations Sampling and sample preparation, type of sample Analytical balances, principles of weighing, weighing by difference Result errors, Significant figures Moisture content in a sample, influence of humidity and temperature Sample dissolution and digestion Knowledge Test Precipitation gravimetry Colloidal and crystalline precipitates, precipitation from homogeneous solution Goprecipitation Gravimetric analysis calculations 				
Learning outcomes:		The student - define and o analytical ch - calculate ba standard dev - perform gra	will be able to: explain the principles o emistry, asic statistical paramet viation) and tests (t-tes avimetric analysis	of gravimetric analysis in ers (mean, median, mode, t and F test),		

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Teaching methodology:	Lectures (oral presentation of teachers - presentations) and laboratory exercises (practical work)					
	Grading criteria					
	Crite	ria 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 sccored through the					
and grading system1:	engagement of students in exercises.					
and grading system		Scores and grading	Crada			
	Score	(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, (1989), Osnovi analitičke hemije, Klasične metode, Svjetlost, Sarajevo Supplementary literature:					
Literature ² :	 D.A. Skoog, D.M. West, F.J. Holler, (1999),Osnovi analitičke kemije, šesto izdanje (englesko), prvo izdanje (hrvatsko), Školska knjiga, Zagreb; D. Harvey, (2000), Modern Analitytical Chemistry, De Pauw University, McGRAW-HILL HIGHER EDUCATION; Praktikum iz Analitičke hemije II -osnovi 					
	gravimetrijske analize, Interna skripta					

 $^{^{1}}$ 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