

<b>Course ID:</b> HAH474	Course name: ANALYTICAL QUALITY CONTROL			
Cycle: FIRST	Year: FOURTH		Semester: VIII	ECTS credits: 4
Course status: MANDATO		DRY	<b>Total course hours:</b> Lectures: 30 Laboratory: 30	60
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs		
Prerequisite for enrollment:		-		
Course aims:		Acquisition of basic knowledge in the field of certification, accreditation and introduction of a quality system in the chemical testing laboratory and quality assessments of different products. Enabling students to independently prepare a testing laboratory for certification and accreditation.		
Thematic course u	nits:			
Learning outcomes	S:	After comple	ting the course, the stu elements of the quality	

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## UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE

Department of Chemistry

	laboratory - distinguish between quality control and quality assurance - assess the quality of different test materials - prepare a testing laboratory for certification and accreditation according to ISO methods - recognize the importance and requirements for laboratory accreditation - find and interpret information in national and international documents Lectures				
Teaching methodology:	Laboratory exercises				
		Grading criteria			
	Criteria	Maximal score	Required score		
	1.         Class attendance           2.         Class activities*	<u> </u>	3 8		
	3. Midterms	40	22		
	4. Final exam	40	22		
	Total	100	55		
According to the de	* Class activity is scored through the engagement of students in laboratory				
Assessment methods	exercises Scores and grading				
and grading system <sup>1</sup> :		Grade	Grade		
	Score	(BiH)	(ECTS)		
	< 55	5	F, FX		
	55-64	6	Е		
	65-74	7	D		
	75-84	8	С		
	85-94	9	B		
	95-100	10	A		
Literature <sup>2</sup> :	<ol> <li>Mandatory literature:         <ol> <li>V. V. Velagić, Analitička kontrola kvaliteta, Studentska štamparija Univerziteta, Sarajevo 1997.</li> <li>M. Kaštelan-Macan, Kemijska analiza u sustavu kvalitete, Školska knjiga, Zagreb, 2003.</li> <li>V. Barwick (Ed), Eurachem/CITAC Guide: Guide to Quality in Analytical Chemistry: An Aid to Accreditation (3rd ed. 2016). ISBN 978-0-948926-32-7.</li> </ol> </li> </ol>				
	4. B. Magnusson and U	. Örnemark (eds.) H	Eurachem		

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

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Guide: The fitness for purpose of analytical methods – A laboratory guide to method validation and related topics (2nd ed. 2014). ISBN 978-91-87461-59-0
Supplementary literature: 1. BAS EN ISO/IEC 17025 2. BAS EN ISO 9001