



Course ID: HAH477	Course name: CHEMISTRY AND QUALITY OF WATER		
Cycle: FIRST	Year: FOURTH	Semester: VII	ECTS credits: 6
Course status: MANDATORY	Total course hours: 75 Lectures: 30 Laboratory: 45		
Teaching participants:	Teachers and associates with expertise in the field to which the subject belongs		
Prerequisite for enrollment:	-		
Course aims:	Acquiring basic information on water and analytical skills to analyze water.		
Thematic course units:	<ul style="list-style-type: none">- Introduction, general terms- Different aspects of water quality- Gases in water- Acidity and alkalinity of water- Metals in water- Complexation of metal ions and species- Inorganic pollutants in water- Organic pollutants in water- Polyphosphates, phosphates, cyanides, nitrites, nitrates in water- Redox processes in water pE-pH diagrams of distribution- Microbiological transformation of nitrogen and phosphorus in wastewater- Microbiological transformation of metals and metalloids in wastewater- River sediments- National legislation		
Learning outcomes:	Acquired knowledge of water and analytical skills for water analysis.		
Teaching methodology:	Theoretical and practical teaching		

Assessment methods and grading system¹:	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
	Scores and grading		
	Score	Grade (B&H)	Grade (ECTS)
	< 55	5	F, FX
	55–64	6	E
	65–74	7	D
75–84	8	C	
85–94	9	B	
95–100	10	A	
Literature²:	<p>Mandatory literature:</p> <ol style="list-style-type: none"> 1. Internal script <p>Supplementary literature:</p> <ol style="list-style-type: none"> 1. Sejit Bobar, Đulsa Bajramović, Hemija voda, OFF-SET Tuzla, 2011. 2. L.M.L. Nollet, Handbook of Water Analysis, CRC Press, New York, 2000. 3. R.L. Droste, Theory and practice of water and wastewater treatment, John Wiley and Sons, Inc., New York, 1997. 4. Voda za piće, Standardne metode za ispitivanje higijenske ispravnosti, Savezni zavod za zdravstvenu zaštitu, Beograd, 1990. 5. Guidelines for drinking-water quality, Health criteria and other supporting information, Second Edition, World Health Organization, Geneva, 1996. 		

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