



<b>Course ID:</b> HDAH31	<b>Course name: AIR ANALYTICS</b>		
<b>Cycle: THIRD</b>	<b>Year: FIRST</b>	<b>Semester: II</b>	<b>ECTS credits: 15</b>
<b>Course status: ELECTIVE</b>	<b>Total course hours: 90</b> Lectures: 45 Laboratory: 45		
<b>Teaching participants:</b>	<b>Teachers and associates with expertise in the field to which the subject belongs</b>		
<b>Prerequisite for enrollment:</b>	-		
<b>Course aims:</b>	Acquiring knowledge in the field of air analytics.		
<b>Thematic course units:</b>	<ul style="list-style-type: none"><li>- Atmospheric characteristics</li><li>- Chemical processes in the atmosphere</li><li>- Photochemical processes in the atmosphere</li><li>- The most important inorganic pollutants emitted into the atmosphere</li><li>- Types of air particulate samplers</li><li>- Chemical analysis of air particulate matter - metal content in particulate matter</li><li>- Methods and devices for testing chemical processes in air</li></ul>		
<b>Learning outcomes:</b>			
<b>Teaching methodology:</b>			
<b>Assessment methods and grading system<sup>1</sup>:</b>	<b>Grading criteria</b>		
	Criteria	Maximal score	Required score
	1. Midterms	2x30	33
	2. Seminar work	10	5
	3. Final exam	30	17
	Total	100	55
	<b>Scores and grading</b>		
	Score	Grade (B&H)	Grade (ECTS)
	< 55	5	F, FX
	55-64	6	E

<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

**Literature<sup>2</sup>:**

Mandatory literature:

1. Jovan Đuković, Hemija atmosfere, Rudarski institut Beograd, 2001
2. Jovan Đuković, Vaso Bojanić, Aerozagadenje, D.P. Institut zaštite i ekologije, Banja Luka, 2000
3. Dinko Tuhtar, Zagadenje zraka i vode, Svjetlost, Sarajevo, 1984
4. Roy M. Harrisson, Pollution: Causes, Effects and Control, The Royal Society of Chemistry, 1996
5. Marquita K. Hill, Understanding Environmental Pollution, Cambridge University Press, 1997

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<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