



Course ID: HAH366	Course name: ENVIRONMENTAL CHEMISTRY I		
Cycle: FIRST	Year: THIRD	Semester: VI	ECTS credits: 2
Course status: MANDATORY	Total course hours: 30 Lectures: 30 Laboratory: 0		
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:	Introduce students to anthropogenic sources of environmental pollution, control and remediation.		
Thematic course units:	<ol style="list-style-type: none">1. Introduction, general terms2. Anthropogenic sources of pollutants in the environment3. Environmental destruction4. Control techniques in the prevention of air pollution, water, and soil pollution5. Legislation, environmental laws6. Standards and Regulations on air, water, and soil quality7. Municipal landfills for household waste, remediation of landfills8. Urban wastewater, physical and chemical treatment9. Biological treatment of urban wastewater10. Quality control of purified water11. Industrial wastewater, sources of pollution12. Wastewater and gases from the chemical and pharmaceutical industries13. Wastewater and gases from metal processing, petrochemical industries, and thermal power plants14. Wastewater and gases from textile, food, and agricultural industry15. Methods of treatment of industrial wastewater and gases		
Learning outcomes:	Knowledge: Acquiring knowledge and developing awareness of preventive action and changing habits in an effort to improve the effect on environmental protection.		

	<p>Skills: Proposing preventive remediation of various wastewaters.</p> <p>Competences: Understanding the sources of environmental pollution, waste management issues, wastewater treatment, control, and preventive action.</p>																																													
Teaching methodology:	<p>Oral presentation method</p> <p>Research method</p>																																													
Assessment methods and grading system¹:	<table border="1"> <thead> <tr> <th colspan="3">Grading criteria</th> </tr> <tr> <th>Criteria</th> <th>Maximal score</th> <th>Required score</th> </tr> </thead> <tbody> <tr> <td>1. Class attendance</td> <td>5</td> <td>3</td> </tr> <tr> <td>2. Class activities</td> <td>5</td> <td>2</td> </tr> <tr> <td>3. Midterms</td> <td>45</td> <td>25</td> </tr> <tr> <td>4. Final exam</td> <td>45</td> <td>25</td> </tr> <tr> <td>Total</td> <td>100</td> <td>55</td> </tr> <tr> <th colspan="3">Scores and grading</th> </tr> <tr> <th>Score</th> <th>Grade (B&H)</th> <th>Grade (ECTS)</th> </tr> <tr> <td>< 55</td> <td>5</td> <td>F, FX</td> </tr> <tr> <td>55–64</td> <td>6</td> <td>E</td> </tr> <tr> <td>65–74</td> <td>7</td> <td>D</td> </tr> <tr> <td>75–84</td> <td>8</td> <td>C</td> </tr> <tr> <td>85–94</td> <td>9</td> <td>B</td> </tr> <tr> <td>95–100</td> <td>10</td> <td>A</td> </tr> </tbody> </table>	Grading criteria			Criteria	Maximal score	Required score	1. Class attendance	5	3	2. Class activities	5	2	3. Midterms	45	25	4. Final exam	45	25	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
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Literature²:	<p>Mandatory literature:</p> <ol style="list-style-type: none"> Muhić-Šarac Tidža, Uvod u hemiju životne sredine, PMF, Sarajevo 2011. <p>Supplementary literature:</p> <ol style="list-style-type: none"> D. Tuhtar, Zagađenje zraka i vode, Svjetlost, Sarajevo, 1984. J. Đuković, Zaštita životne okoline, zaštita vazduha, Univerzitet u Tuzli, Tuzla, 1983. A. Raković, Zagađivanje i prečišćavanje vazduha, Građevinska knjiga, Beograd, 1981. Grupa autora, Voda za piće – Standardne metode za ispitivanje higijenske ispravnosti, Privredni pregled, Beograd, 1990. Z. Amjad, The Science and Technology of Industrial 																																													

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

