



<b>Course ID:</b> HTH481	<b>Course name: INDUSTRIAL CHEMISTRY</b>		
<b>Cycle: (I) FIRST</b>	<b>Year: IV (FOURTH)</b>	<b>Semester: VIII</b>	<b>ECTS credits: 4</b>
<b>Course status: MANDATORY</b>		<b>Total course hours: 60</b> Lectures: 30 Laboratory: 30	
<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>	Introduction to the base chemical industry and other chemical technologies relevant to the BiH economy		
<b>Thematic course units:</b>	<ol style="list-style-type: none"><li>1. Technology and technological systems</li><li>2. Chemical processing of water in industry</li><li>3. solid fuel</li><li>4. Fertilizers, pesticides, herbicides and insecticides</li><li>5. Construction materials</li><li>6. Base chemical industry</li><li>7. Petrohemija</li><li>8. Alcoholic and non-alcoholic beverages</li><li>9. Explosives and ammunition</li></ol>		

	10. Ecological technologies																																													
<b>Learning outcomes:</b>	<p>The student will be able to:</p> <ul style="list-style-type: none"> <li>- Apply knowledge in the field of base chemical industry and other technologies relevant to the economy of BiH</li> <li>- Apply knowledge in terms of developing existing industries in the field of chemistry</li> <li>- Assess the connection between the chemical industry, economy and ecology</li> <li>- Work on getting to know and develop environmental technologies</li> </ul>																																													
<b>Teaching methodology:</b>	<ol style="list-style-type: none"> <li>1) Method of verbal exposure</li> <li>2) Discussion method</li> <li>3) Method of practical work (visiting factories)</li> <li>4) Exercise method (calculation)</li> </ol>																																													
<b>Assessment methods and grading system:</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th colspan="3">Grading criteria</th> </tr> <tr> <th style="width: 30%;">Criteria</th> <th style="width: 30%;">Maximal score</th> <th style="width: 40%;">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>15</td> <td>8</td> </tr> <tr> <td>3. Midterms</td> <td>40</td> <td>22</td> </tr> <tr> <td>4. Final exam</td> <td>40</td> <td>22</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">100</td> <td style="text-align: center;">55</td> </tr> <tr style="background-color: #e0e0e0;"> <th colspan="3">Scores and grading</th> </tr> <tr> <th style="width: 30%;">Score</th> <th style="width: 30%;">Grade (B&amp;H)</th> <th style="width: 40%;">Grade (ECTS)</th> </tr> <tr> <td style="text-align: center;">&lt; 55</td> <td style="text-align: center;">5</td> <td style="text-align: center;">F, FX</td> </tr> <tr> <td style="text-align: center;">55–64</td> <td style="text-align: center;">6</td> <td style="text-align: center;">E</td> </tr> <tr> <td style="text-align: center;">65–74</td> <td style="text-align: center;">7</td> <td style="text-align: center;">D</td> </tr> <tr> <td style="text-align: center;">75–84</td> <td style="text-align: center;">8</td> <td style="text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">85–94</td> <td style="text-align: center;">9</td> <td style="text-align: center;">B</td> </tr> <tr> <td style="text-align: center;">95–100</td> <td style="text-align: center;">10</td> <td style="text-align: center;">A</td> </tr> </tbody> </table>	Grading criteria			Criteria	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	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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<b>Literature:</b>	<ol style="list-style-type: none"> <li>1. J.Sadadinović, Organska tehnologija, Tehnološki fakultet, Tuzla, 2008.</li> <li>2. Ullmans Encyclopedia of Industrial Chemistry (2008): John Wiley &amp; Sons, Inc. www.</li> <li>3. M. Bogner, M. Stanojević, O vodama, ETA, Beograd, 2006.</li> <li>4. M. Tencilazić-Stevanović, Osnovi tehnologije keramike, TMF, Beograd, 1990.</li> <li>5. LJ Kostić-Gvozdinović, R. Ninković, Neorganska hemijska tehnologija, TMF, Beograd, 1977;</li> </ol>																																													