



<b>Course ID:</b> HTHI05	<b>Course name: APPLICATION OF SEPARATION PROCESSES IN INDUSTRIAL CHEMISTRY</b>		
<b>Cycle: II (SECOND)</b>	<b>Year: I (FIRST)</b>	<b>Semester:</b>	<b>ECTS credits: 5</b>
<b>Course status: ELECTIVE</b>		<b>Total course hours: 75</b> Lectures: 75 Laboratory: 0	
<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>	To provide students with basic knowledge about the most important separation processes, techniques, methods and devices, and the selection of separation technology for a particular process.		
<b>Thematic course units:</b>	Basic principles of phase separation  Distillation devices  Extraction  Commercial extraction devices liquid -Thisness  Decanting  Evaporation  Crystallization from solution, phitra through the membrane  Microfiltration, ultrafiltration, Inverse osmosis  Electrodiaism		

	<p>Centrifuge</p> <p>Foam separation processes</p> <p>Sedimentation. Solid mixtures. Drying of solid material exaggeration</p> <p>Disconnecting ionoming</p> <p>Choice of the Separation Process, Basic Principles for Selection and Order of Individual Devices in the formation of the optimal separation process</p>																																													
<b>Learning outcomes:</b>	<p>The student will be able to:</p> <ul style="list-style-type: none"> <li>- overcome knowledge about the most important separation processes, techniques, methods and devices</li> <li>- Assess the selection of techniques for a particular process</li> </ul>																																													
<b>Teaching methodology:</b>	<ol style="list-style-type: none"> <li>1) Method of verball exposure</li> <li>2) Discussion method</li> <li>3) Research method</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: 60%;">Criteria</th> <th style="width: 20%;">Maximal score</th> <th style="width: 20%;">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>Score</th> <th>Grade (B&amp;H)</th> <th>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>	<p>Dopunska:</p> <ol style="list-style-type: none"> <li>1. Rousseau, Handbook of Separation Process Technology, John Wiley&amp;Sons,N.Y.,1987</li> <li>2. Fonald W. Rousseau, handbook of Separation Process Technology, WileyIterscience, 1987</li> </ol>																																													