

## Information sheet for the course Chemical engineering II

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>	
<b>Faculty:</b> <i>VILA – Joint Glass Centre</i>	
<b>Course unit code:</b> <i>ChI II</i>	<b>Course unit title:</b> <i>Chemical Engineering II</i>
<b>Type of course unit:</b> <i>compulsory</i>	
<b>Planned types, learning activities and teaching methods:</b>  <i>Lecture: 2 hours weekly, face to face</i> <i>Seminar: 1 hour weekly</i>	
<b>Number of credits:</b> <i>5</i>	
<b>Recommended semester:</b> <i>2. semester</i>	
<b>Degree of study:</b> <i>II. (engineer, magister)</i>	
<b>Course prerequisites:</b> <i>none</i>	
<b>Assesment methods:</b>  <i>Final written exam, theoretical part – 50 points, two examples – 25 points each</i> <i>Requirement – 20 points for one example</i>	
<b>Learning outcomes of the course unit:</b> <i>Student understands diffuse separation processes in defined technological processes and also the principles of designed and operational calculations of unit processes and equipment in the technology.</i>	
<b>Course contents:</b> <ol style="list-style-type: none"><li>1. Transfer of matter in gasses and liquids</li><li>2. Distillation</li><li>3. Rectification</li><li>4. Extraction of liquids</li><li>5. Extraction of solid matters</li><li>6. Flotation</li><li>7. Absorption</li><li>8. Air treatment</li><li>9. Drying of solid materials</li><li>10. Adsorption</li><li>11. Distillation and rectification columns</li><li>12. Extractors</li><li>13. Absorbers and adsorbers</li></ol>	

**Recommended of required reading:**

*Dojčanský, J., Longauer, J.: Chemické inžinierstvo II. Bratislava : Malé centrum, 2000*  
*Bafrncová, S. a kol.: Chemické inžinierstvo : Príklady a úlohy. Bratislava : STU, 1996.*

**Language:** *Slovak***Remarks:****Evaluation history:**

A	B	C	D	E	FX

**Lecturers:** *doc. Ing. Peter Vrábel, PhD.***Last modification:** *31. 1. 2014***Supervisor:** *prof. Ing. Marek Liška, DrSc.*