

## Information sheet for the course Recycling Technologies

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>	
<b>Faculty:</b> <i>Faculty of Industrial Technologies in Púchov</i>	
<b>Course unit code:</b> <i>MI-I-P-14</i>	<b>Course unit title:</b> <i>Recycling Technologies</i>
<b>Type of course unit:</b> <i>compulsory</i>	
<b>Planned types, learning activities and teaching methods:</b>  <i>Lecture: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Seminar: 1 hours weekly/13 hours per semester of study; face to face</i> <i>Laboratory tutorial: 0 hours</i>	
<b>Number of credits:</b> <i>4</i>	
<b>Recommended semester:</b> <i>3<sup>rd</sup> semester in the 2<sup>nd</sup> year full-time</i> <i>3<sup>rd</sup> semester in the 2<sup>nd</sup> year part-time</i>	
<b>Degree of study:</b> <i>the 2<sup>nd</sup> degree of study (Engineer's degree)</i>	
<b>Course prerequisites:</b> <i>none</i>	
<b>Assessment methods:</b> <i>During the semester, the student has to work out the assigned project and defend it. At the end of the semester will be a test. Active participation in the seminars.</i>	
<b>Learning outcomes of the course unit:</b> <i>Student can recognize the principles, concepts and solutions of waste management with an emphasis in environmental problems waste disposal, with an emphasis in monitoring of trends development in the area of cleaner technologies and managing waste in the intentions of sustainable development and requirements of future generations. Student gets familiarized in sphere recycling wastes and recycling technologies.</i>	
<b>Course contents:</b> <i>Legislation from area of waste management and the definition of basic concepts, Waste classification, Managing waste, Waste analysis and treatment, Wastes recycling, non-waste technology, biodegradation, composting, recycling from agricultural and food productions, paper and cellulose recycling, energy utilization wastes, Construction waste recycling, glass recycling, sludge recycling ČOV, plastic recycling, tyre recycling, Recycling in metallurgy and engineering, car wreck recycling, recycling of batteries, electronics and light sources, recycling of medical and laboratory wastes, advanced technologies recycling of the waste.</i>	
<b>Recommended of required reading:</b> <i>CHMIELEWSKÁ, E.: ODPADY. TEMPUS, BRATISLAVA, 1997, ISBN: 80-967774-3-2.</i> <i>SOLDÁN, M., SOLDÁNOVÁ, Z., MICHALÍKOVÁ, A.: EKOLOGICKÉ NAKLADANIE S MATERIÁLMI A ODPADMI. STU BRATISLAVA, 2005, ISBN: 85- 230- 2005.</i> <i>ZÁKON Č. 223/2001 O ODPADOCH</i> <i>PROUSEK, J.: RIZIKOVÉ VLASTNOSTI LÁTKOK, STU BRATISLAVA, 2005, ISBN: 80-227-2199-9</i> <i>ČERMÁK, Oskar a kol.: Životné prostredie, IN: STU Bratislava 2008, ISBN 978-80-227-2958-1.</i> <i>ŠOOŠ, Lubomír: Odpady I Environmentálne technológie, IN: STU Bratislava 2007, ISBN 978-80-227-2627-6.</i> <i>OROLÍNOVÁ, M.: CHÉMIA A ŽIVOTNÉ PROSTREDIE, Trnavská univerzita v Trnave, 2009 Trnava, ISBN 978-80-8082-298-9</i>	
<b>Language:</b> <i>Slovak</i>	
<b>Remarks:</b>	

**Evaluation history:***The total number of evaluated students: 36*

A	B	C	D	E	FX
88.89	11.11	0.0	0.0	0.0	0.0

**Lecturers:** *prof. RNDr. Mariana Pajtášová, PhD.***Last modification:** *31.03.2014***Supervisor:** *prof. Ing. Darina Ondrušová, PhD.*