

Information sheet for the course Waste Engineering

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>					
Course unit code: <i>MI-P-25</i>			Course unit title: <i>Waste Engineering</i>		
Type of course unit: <i>compulsory</i>					
Planned types, learning activities and teaching methods:					
<i>Lecture: 2 hours weekly/26 hours per semester of study; face to face</i>					
<i>Seminar: 2 hours weekly/26 hours per semester of study; face to face</i>					
<i>Laboratory tutorial: 0 hours</i>					
Number of credits: 5					
Recommended semester: <i>4th semester in the 2nd year full-time</i> <i>4th semester in the 2nd year part-time</i>					
Degree of study: <i>the 1st degree of study (Bachelor's degree)</i>					
Course prerequisites: <i>none</i>					
Assessment methods:					
<i>During the semester, the student has to work out the assigned project and defend it. At the end of the semester must successful pass the test and an oral exam. Active participation in seminars.</i>					
Learning outcomes of the course unit:					
<i>The student can recognize in the basic legislation, defines basic terms, he gets familiarized the problems of waste management, sorting of produced municipal solid waste, treatment, disposal. Student can recognize in the problems relating to the non-waste and low-waste technologies, he gets familiarized the recycling of selected commodities.</i>					
Course contents:					
<i>Basic legislation, basic concepts, Purpose of waste management, Program of waste management, Waste treatment, Waste disposal, The list of hazardous characteristics under the Basel Convention, Overview of waste groups, Methods of waste analysis, Waste incineration, Landfilling, Waste landfill, Technology the waste landfilling, Methods of waste landfilling, Controlled landfill, Closure and recultivation of landfill, Solidification of hazardous waste, Radioactive waste management, Waste recycling, Non-waste technology, Waste sorting, Collection points, Components of municipal solid waste, Recycling of selected commodities.</i>					
Recommended of required reading:					
<i>CHMIELEWSKÁ, E.,.: Odpady., PrF UK, Tempus, Bratislava. 1997. 336s. ISBN 976-80-8057-771-1.</i>					
<i>BETÁKOVÁ, J. A KOL.: Hovoríme o odpadoch 2. 1. vyd. Trenčín. 2005. 80s. ISBN 80-8075-066-1.</i>					
<i>GAŠPARÍKOVÁ, B. A KOL.: Odpadové hospodárstvo Slovenskej republiky po vstupe do EÚ, IN: EPOS Bratislava 2004, ISBN 80-8057-610-6.</i>					
<i>MRAČKO, M.: Príručka odpadového hospodárstva. Bratislava: Epos, 2009. 80 s. ISBN 978-80-8057-822-0.</i>					
<i>SOLDÁN, M.- SOLDÁNOVÁ, Z.-MICHALÍKOVÁ, A.: Ekologické nakladanie s materiálmi a odpadmi, STU Bratislava, 2005 Bratislava, ISBN: 80 – 227 – 2223 – 5.</i>					
Language: <i>Slovak</i>					
Remarks:					
Evaluation history:					
<i>The total number of evaluated students: 0</i>					
A	B	C	D	E	FX

0.0	0.0	0.0	0.0	0.0	0.0
Lecturers: <i>prof. RNDr. Mariana Pajtášová, PhD.</i>					
Last modification: <i>31.03.2014</i>					
Supervisor: <i>prof. Ing. Darina Ondrušová, PhD.</i>					