

Information sheet for the course Selected Chapters from Environmental Engineering

University: <i>Alexander Dubček University of Trenčín</i>	
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>	
Course unit code: <i>MI-I-PV-42</i>	Course unit title: <i>Selected Chapters from Environmental Engineering</i>
Type of course unit: <i>optional</i>	
Planned types, learning activities and teaching methods: <i>State Examination Subject ; face to face</i>	
Number of credits: <i>2</i>	
Recommended semester: <i>4th semester in the 2nd year full-time 6th semester in the 3rd year part-time</i>	
Degree of study: <i>the 2nd degree of study (Engineer's degree)</i>	
Course prerequisites: <i>Completion of all compulsory and optional courses of the study plan, including MI-I-P-6 Environmental Engineering.</i>	
Assessment methods: <i>Successful completion of the state examination subject.</i>	
Learning outcomes of the course unit: <i>Student will successfully complete the state examination subject.</i>	
Course contents: <ol style="list-style-type: none"> <i>1. The basic terms - Environmental, environmental engineering like science discipline.</i> <i>2. The current problems of the environmental protection - the main global problems, the problems with far reaching consequences, the most serious problems.</i> <i>3. The global warming - the greenhouse effect, the greenhouse gases, the consequences of global warming, the possible solutions.</i> <i>4. The depletion of the ozone layer - the ozone and ozone layer, the causes and consequences creation of the ozone hole, the possible solutions.</i> <i>5. The acidic atmospheric deposition - the causes and consequences creation of the acidic rains, the possible solutions.</i> <i>6. Threats to biodiversity - definition of the biodiversity, the causes of the threat, the threats areas, the reason for protecting environmental wealth of the Earth.</i> <i>7. The international agreements -The Montreal Protocol, The Kyoto Protocol, Climate Change conference in Nice.</i> <i>8. The influence of anthropogenic activities on components of the biosphere - the atmosphere - composition, properties and function of the atmosphere. The pollution of the atmosphere - nature LZO, LZO anthropogenic origin, harmful substances in air, perspective solutions.</i> <i>9. The influence of anthropogenic activities on components of the biosphere - the hydrospheric - function, properties and types of water. The pollution of the hydrospheric - the pollution of the water, types of the sewage, perspective solutions.</i> <i>10. The influence of anthropogenic activities on components of the biosphere - the pedosphere, the lithosphere - properties and function of the soil. The soil degradation - the contamination, the erosion. Types of contaminants in soil. Perspective solutions.</i> <i>11. Protection of the nature - large surface area and small surface area of protected areas, types of endangered taxons.</i> <i>12. REACH; BAT; BREF; IPKZ - definition, meaning.</i> 	
Recommended of required reading:	

1. BLAŽEJ, A. A KOL.: CHEMICKÉ ASPEKTY ŽIVOTNÉHO PROSTREDIA. BRATISLAVA/PRAHA, ALFA/SNTL, 1981.
2. HOSTIN, S. – ŠILHÁR, S. – SOLDÁN, M. – LACUŠKA, M.: ENVIRONMENTÁLNE INŽINIERSTVO I. BRATISLAVA, STU, 2004. ISBN 80-227-2013-5
3. TÖLGYESSY, J. – PIATRIK, M. – ČÍK, G. – HARANGOZÓ, M.: TECHNOLÓGIA ŽIVOTNÉHO PROSTREDIA. BRATISLAVA, STU, 1998. ISBN 80-227-1048-2
4. ŠKÁRKA, B. – POLÍVKA, L. – FENDRICH, E. – HOSTÍN, S. – LACUŠKA, M.: ENVIRONMENTÁLNA CHÉMIA. BRATISLAVA, STU, 2003. ISBN 80-227-1973-0
5. PROUSEK, J. – ČÍK, G.: ZÁKLADY EKOLÓGIE A ENVIRONMENTALISTIKY. BRATISLAVA, STU, 2004. ISBN 80-227-2097-6
6. HERČÍK M.: ŽIVOTNÍ PROSTŘEDÍ. ZÁKLADY ENVIRONMENTALISTIKY. TU OSTRAVA, 2007.
7. KUDRNA K. A KOL.: BIOSFÉRA A LIDSTVO. ACADEMIA, PRAHA, 1988.

Language: *Slovak*

Remarks:

Evaluation history: The total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Lecturers: *Ing. Darina Ondrušová, PhD.*

Last modification: *31.03.2014*

Supervisor: *prof. Ing. Darina Ondrušová, PhD.*