

Information sheet for the course: Environmental Engineering

University: Alexander Dubček University of Trenčín	
Faculty: Faculty of Industrial Technologies in Púchov	
Course unit code: MI-I-P-6	Course unit title: Environmental Engineering
Type, scope and method of educational activities: Types of education: Lecture / Seminar / Laboratory practical Recommended duration of education (in hours): Per week: 2 / 1 / 0 For the whole period of study: 24 / 12 / 0 Study method: combined	
Number of credits: 3	
Recommended semester/trimester of study: 1.	
Degree of study: II.	
Prerequisites:	
Conditions for the accomplishment of the course unit: Assessment during the semester: Summary assessment of work results during the semester = 40 points Active participation in seminars during the semester, elaboration and presentation of project from environmental engineering sphere. Final assessment: Assessment of exam results = 60 points written examination Grading scale: Grade A: 91 – 100 points Grade B: 81 – 90 points Grade C: 71 – 80 points Grade D: 61 – 70 points Grade E: 55 – 60 points Grade FX: less than 55 points	
Learning outcomes: The student has knowledge from sphere of global environmental problems, knows and understands a connection between anthropogenic activities and her influence on quality individual component of environment. He knows to characterize the main types of substances air pollutants, water, soil and controls environmental technological processes and their elimination and principle of work of concerned equipment. He has knowledge from problems of the nature protection, the most important international agreements and the basic protection of the environment legislation.	
Brief course unit content: The basic terms - Environmental, environmental engineering like science discipline The current problems of the environmental protection The global warming - the greenhouse effect, the greenhouse gases, the consequences of global warming, the possible solutions. The depletion of the ozone layer - the ozone and ozone layer, the causes and consequences creation of the ozone hole, the possible solutions. The acidic atmospheric deposition - the causes and consequences creation of the acidic rains, the possible solutions. Threats to biodiversity - definition of the biodiversity, the causes of the threat, the threats areas, the reason for protecting environmental wealth of the Earth. The international agreements -The Montreal Protocol, The Kyoto Protocol, Climate Change	

<p>conference in Nice.</p> <p>The influence of anthropogenic activities on components of the biosphere – the atmosphere, the hydrosphere, the pedosphere, the lithosphere – function and properties of biosphere components, the pollution, perspective solutions.</p> <p>Protection of the nature - large surface area and small surface area of protected areas, types of endangered taxons.</p> <p>REACH; BAT; BREF; IPKZ - definition, meaning.</p>					
<p>Recommended Literature:</p> <p>BLAŽEJ, A. a kol.: Chemické aspekty životného prostredia. Bratislava: Alfa, 1981.</p> <p>PROUSEK, J., ČÍK, G.: Základy ekológie a environmentalistiky. Bratislava: STU, 2011. ISBN 978-80-227-3601-5.</p> <p>HERČÍK, M.: Životní prostředí. Základy environmentalistiky. Ostrava: VŠB: Technická univerzita Ostrava, 2006. ISBN: 80-248-1073-5.</p> <p>SCHWARZ, M.: Chémia životného prostredia. Zvolen: Technická univerzita vo Zvolene, 2016. ISBN: 978-80-228-2917-5.</p> <p>ŠKÁRKA, B., POLÍVKA, L., FENDRICH, E., HOSTÍN, S. LACUŠKA, M.: Environmentálna chémia. Bratislava: STU, 2003. ISBN 80-227-1973-0.</p> <p>E-learning TnUAD.</p>					
<p>Language which is necessary for accomplishment of the course unit:</p> <p>Slovak</p>					
<p>Notes:</p>					
<p>Course evaluation passed/failed</p>					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
<p>Teachers: Ing. Iveta Papučová, PhD.</p>					
<p>Last modification date: 13.06.2022</p>					
<p>Approved by: prof. RNDr. Mariana Pajtášová, PhD.</p>					