Information sheet for the course Toxicology and High-risk Characteristic of Materials

University: Alexander Dubček University of Trenčín Faculty: Faculty of Industrial Technologies in Púchov					
	Characteristic of Materials				
Type of course unit: optional					
Planned types, learning activities and teaching methods:					
Lecture: 2 hours weekly/26 hours per set Seminar: 1 hours weekly/13 hours per se Laboratory tutorial: 0 hours					
Number of credits: 4					
Recommended semester: 3 rd semester in the 2 nd year full-time					
3^{rd} semester in the 2^{nd} year part-time					
Degree of study: the 2 nd degree of study	(Engineer's degree)				
Course prerequisites: none					
Assessment methods:					
During the semester the student must work out the assigned semestral exercise and present it At					

During the semester, the student must work out the assigned semestral exercise and present it. At the end of the semester will be a test. Active participation in the seminars.

Learning outcomes of the course unit:

The student can recognize the importance and perspective of exploitation knowledge of toxicology in the process of environmental contamination by toxic xenobiotics, their risk factors and characteristics of selected groups of materials.

Course contents:

Historical development of toxicology, toxicology classification, basic concepts and definitions, division of toxicology, The importance of toxicology and ecotoxicology for agriculture, rubber industry, biotic monitoring, classification of poisons and pollutants, Division of poisonings, symptoms of poisonings, first aid, Specific effects of toxic substances, The inputs of toxic substances into the organism, the rate and intensity of infiltration poison into the organism, resistance of the organism against poisons, Characteristics risk of chemicals to humans and animals, relationship of dose and effect, influence of various factors, exposure assessment,. Toxicity testing, Acute, subacute, chronic toxic effect, mutagens, carcinogens, teratogenic, Division of carcinogens, Harm to the fetus by phases of development, The toxicological effects of selected elements and compounds, Inorganic substances and their toxic effects, Narcotic and psychotropic substances, Hazardous materials.

Recommended of required reading:

CHMIELEWSKÁ, E., BEDRNA, Z.: Rizikové látky a environmentálne hazardy, Cicero, s.r.o. Bratislava, 2007, ISBN 978-80-969678-0-3.

PALEČEK, J., LINHART, I., HORÁK, J.: TOXIKOLOGIE A BEZBEČNOST PRÁCE V CHEMII,

FAKULTA CHEMICKÉ TECHNOLOGIE, PRAHA, 1999, ISBN 80-7080-266-9.

HORÁK, J., LINHART, I., KLUSOŇ, P.: ÚVOD DO TOXIKOLOGIE A EKOLOGIE PRO CHEMIKY, VŠ CHEMICKO-TECHNOLOGICKÁ, PRAHA, 2004, ISBN 80-7080-548-X

KUPEC, J.: TOXIKOLOGIE, UNIVERZITA TOMÁŠE BATI VE ZLÍNĚ, ZLÍN, 2004, ISBN 80-7318-216-5.

Language: Slovak

Remarks:

Evaluation history:							
The total number of evaluated students: 0							
A	В	С	D	Е	FX		
0.0	0.0	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.							