Information sheet for the course
Selected Chapters from Recycling Technologies

University: *Alexander Dubček University of Trenčín*	
Faculty: *Faculty of Industrial Technologies in Púchov*	
Course unit code: *MI-I-PV-43*	**Course unit title:** *Selected Chapters from Recycling Technologies*
Type of course unit: *optional*	
Planned types, learning activities and teaching methods: *state examination subjects; face to face*	
Number of credits: *2*	
Recommended semester: *4th semester in the 2nd year full-time* *6th semester in the 3rd year part-time*	
Degree of study: *the 2nd degree of study (Engineer's degree)*	
Course prerequisites: *Graduation of all compulsory and optional subjects from the study plan, including of subject MI-IP-14 Recycling technologies.*	
Assessment methods: *Student has graduated successfully the state examination subjects.*	
Learning outcomes of the course unit: *The student can recognize within the state exam problems of recycling technologies, get familiarized in the basic legislation, defined the basic concepts and he can recognize problems managing waste, treatment, disposal. Student get familiarized in problems which relate the non-waste and low-waste technology, he can recognize the recycling of selected commodities.*	
Course contents: *1. Act. 223/2001 on waste - Definition of basic terms: waste, waste producer, holder of waste, waste management, managing waste, waste treatment, waste disposal, waste collection, waste separation, waste landfilling, waste landfill* *2. Purpose of Waste management and the program of Waste Management* *3. Waste treatment (energy and material)* *4. Waste disposal* *5. Waste incineration, waste from incineration* *6. Landfilling, waste landfill - Class of waste landfills , technology the waste landfilling, methods of waste landfilling to landfill, controlled landfill, landfill closure and recultivation* *7. Solidification of hazardous waste (including radioactive)* *8. Waste recycling* *9. Non-waste technology* *10. Biodegradation* *11. Composting* *12. Energy utilization of wastes* *13. Waste processing of agricultural and food production* *14. Processing of waste paper and cellulose* *15. Waste recycling in the construction industry* *16. Waste recycling from the glass industry* *17. Processing of waste sludge ČOV* *18. Plastic recycling* *19. Recycling of metal waste* *20. Recycling of waste tires* *21. Recycling of electrical waste* *22. Recycling of wastes from the automotive industry*	

23. Methods of wastes analysis (analytical chemistry waste materials)
24. Advanced technologies of waste disposal.
25. Oil recycling
26. The processing and disposal PCB
27. Waste treatment
28. Collecting yard
29. Patterns of safety signs
30. Packaging and packaging wastes
31. The asbestos as a hazardous waste
32. Medical and laboratory waste
33. Low-waste and non-waste technology
34. Act. 119/2010 on packaging.

Recommended of required reading:

CHMIELEWSKÁ, E.: ODPADY. TEMPUS, BRATISLAVA, 1997, ISBN: 80-967774-3-2.
SOLDÁN, M., SOLDÁNOVÁ, Z., MICHALÍKOVÁ, A.: EKOLOGICKÉ NAKLADANIE S MATERIÁLMI A ODPADMI. STU BRATISLAVA, 2005, ISBN: 85- 230- 2005.
ZÁKON Č. 223/2001 O ODPADOCH
PROUSEK, J.: RIZIKOVÉ VLASTNOSTI LÁTOK, STU BRATISLAVA, 2005, ISBN: 80-227-2199-9
ČERMÁK, Oskar a kol.: Životné prostredie, IN: STU Bratislava 2008, ISBN 978-80-227-2958-1.

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: *prof. RNDr. Mariana Pajtášová, PhD.*

Last modification: *31.03.2014*

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