Information sheet for the course Environmental aspects of the material production

University: Alexander Dubček University of	of Trenčín				
Faculty: VILA – Joint Glass Centre					
Course unit code: EAMP	Course unit title : Environmental aspects of the material production				
Type of course unit: <i>compulsory</i>					
Planned types, learning activities and tead	ching methods: 2h lectures				
Number of credits: 3					
Recommended semester: 3. semester					
Degree of study: II. (engineer)					
Course prerequisites: none					
Assesment methods:					
Participation at the lectures.					
	tten part of the exam proves knowledge of a studen				
aquired from the lectures. Minimum 60% from the overall sum of points is necessary for entering					
the oral part of exam.					
Learning outcomes of the course unit:					
of the inorganic materials, glass, metal, environmental point of view. He/she lean production and its impact on the environm alternative sources, environmental technology	t technologies related to preparation and production s, polymers, textiles and nanomaterials from the rns specific technological aspects of the materia nent. He/she will gain the knowledge in the field of ogies and possible ways of pollution elimination and				
solving the environmental problems.					
Course contents:	and a firm and an his and and its sources and				
1. Biosphere and its classification. Influ Definition of terms used in the environn	ence of humans on biosphere and its components				
	and air. Classification of the industrial activitie				
impacts on environment.	5 5				
-	exploitation and processing of the raw materials and				
-	the inorganic materials (glass and ceramics).				
5. Environmental aspects of production of the inorganic materials (lime and cement).					
6. Production of polymers and its influence on environment.					
7. Environmental impact and challenges in the textile production.					
8. Environmental impact and challenges in paper and cellulose production.					
9. Environmental risks related to exploitation of metal and non-metal materials.					
10. Potential environmental risks related to development and exploitation of nanomaterials.					
11. Classification of the industrial waste and technologies for its liquidation.					
12. Environmental sustainability of the indu	1				
13. The alternation sources of energy and e	nvironmental technologies.				
Recommended of required reading:					
	P. Šajgalík, J.Dusza: Konštrukčná keramika. R&I				
Print, Blava 1992	× ·/1 1 · 1/1 / ·/1 61 1				
Majling J., Plesch G., a kol.: Technológia špeciálnych anorganických materiálov, Slovenská technická univerzita, Fakulta chemickej a potravinárskej technológie, 2002, ISBN 80-227-1734-7					
Publishing Co, 1992	gn: Choices for a Cleaner Environment, DIAN				
	ence and Technology Environmental Toxicology an				

Časopisecká literatúra: Environmental Science and Technology, Environmental Toxicology and

Chemistry, Journal of Environmental Quality, Environmental Health Perspectives							
Language: Slovak							
Remarks:							
Evaluation history:							
А	В	С	D	Е	FX		
Lectures: Ing. Dagmar Galusková, PhD.							
Last modification: 31. 1. 2014							
Supervisor:							