## Information sheet for the course Objectification of Factors – Living and Working Environment

University: A	lexander Dubček Universi	ty of Trenčín						
Faculty: Faculty of Health Care								
	ode: OFŽPP/d	<b>Course unit title:</b> Objectification of Factors – Living and Working Environment						
Type of cours	e unit: compulsory							
Planned type	, learning activities and t	eaching methods:						
Lecture: 1 hour weekly/13 hours per semester of study; full-time								
Seminar: 2 hours weekly/26 hours per semester of study; full-time								
Number of credits: 3								
<b>Recommended semester:</b> $6^{th}$ semester in the $3^{rd}$ year (full-time)								
Degree of study: I (bachelor)								
Course prerequisites: none								
Assessment methods:								
		nt must pass an oral examination and write a seminary						
work (100 points).								
- Seminary work designed for a situation model (25 points).								
	- Oral examination (75 points).							
To obtain A, a student must score at least 90 points, to obtain B, a student must score at least 80								
points, to obtain C, a student must obtain at least 70 points, to obtain D, a student must obtain at								
least 60 points, and finally to obtain E, a students must to obtain at least 50 points.								
	omes of the course:	•						
A student can define the latest knowledge of laboratory testing methods during sampling and								
		g environments. A student is able to apply the achieved						
		lge concerns qualitative and quantitative analysis of						
samples received from living and working environments by means of modern instrumentation								
and equipment								
Course conte								
Lectures								
1. Basic def	initions – air, water as a	a subject of interest to public health, food, nutrition,						
essential r								
2. Physical p	2. Physical properties of drinking water.							
3. Chemical properties of drinking water.								
5. Food, Coo	• • •							
6. Contamin								
7. Contamin	7. Contaminants in food – contaminating.							
8. Sampling								
9. Determina	. Determination of chemical agents at work – solid aerosols, chemicals.							
10. Biological exposure tests – basic definitions (half-time of school teaching), biological limit values, selected chemical pollutants and their metabolites.								
	11. Exposure assessment of workers at work - basic definitions of preventive occupational							
12. Definitions of sound, noise, noise at work.								
13. Noise in living environment.								
Seminars:								
	initions – air, water as s	subject matter of interest of public health, foodstuff,						
1. Duble del	un rulei do c	suggest matter of merebe of paone nearth, rooustant,						

nutrition, basic nutrients.

- 2. Determination of physical parameters in drinking water: organoleptic properties of water.
- 3. Determination of selected chemical parameters in drinking water (chlorides).
- 4. Practical exercises spectrophotometric method.
- 5. Classification of additive and contaminating substances.
- 6. Determination of food additives (preservatives, liquid chromatography).
- 7. Determination of contaminants in food (metals).
- 8. Sampling in the workplace atmosphere.
- 9. Determination of chemical agents in the workplace atmosphere (gravimetry, gas chromatography).
- 10. Determination by the method of BET exposure to toluene.
- 11. Exposure assessment of employees Test reports.
- 12. Measurement of noise in the workplace
- 13. Noise in living environment.

## **Recommended of required reading:**

- 1. ŠULCOVÁ, M., ČIŽNÁR, I., FABIÁNOVÁ, E.: Verejné zdravotníctvo. VEDA SAV Bratislava 2012. 654 s. ISBN 978-80-224-1283-4
- HEGYI, L., Bielik, I.: Základy verejného zdravotníctva. SZÚ Bratislava. HERBA 2011. 280s. ISBN 978-80-89171-84-2
- Objektivizácia faktorov prostredia. SZÚ Bratislava. HERBA 2004. 264s. ISBN 80-89171-18-4
- 4. BUCHANCOVÁ, J. A KOL.: Pracovné lekárstvo a toxikológia. Martin: Osveta, 2003. 1133 s. ISBN 80-8063-113-1
- 5. TOLGYESY A KOL.: Chémia, biológia a toxikológia vody a ovzdušia. Bratislava: SAV. 1989. 530s. ISBN 80-224-0034-3
- 6. ČAKRT, M., KRUPČÍK, J., MOCÁK, J. A KOL.: Analytická chémia Praktikum 1. Bratislava : SVST, 1985. 644 s. ISBN 80-05-0012-6.

Language: Slovak Remarks: Evaluation history:														
									А	В	С	D	Е	FX
Lectures: RNDr. Mária Poláková, PhD.														
Last modification: 22.04.2014														
Supervisor: doc. MUDr. Mária Štefkovičová, PhD., MPH.														