

## Information sheer for the course Physiology and Comfort Clothing

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>					
<b>Faculty:</b> <i>Faculty of industrial Technologies in Púchov</i>					
<b>Course unit code:</b> <i>TTN-P-14</i>			<b>Course unit title:</b> <i>Physiology and Comfort Clothing</i>		
<b>Type of course unit:</b> <i>compulsory</i>					
<i>Lecture: 2 hours weekly/26 hours per semester of study; face to face</i>					
<i>Seminar: 0</i>					
<i>Laboratory tutorial: 2 hours weekly/26 hours per semester of study; face to face</i>					
<b>Number of credits:</b> <i>5</i>					
<b>Recommended semester:</b> <i>the 3<sup>rd</sup> semester in the 2<sup>nd</sup> year full-time form of study</i> <i>the 5<sup>th</sup> semester in the 3<sup>rd</sup> year part-time form of study</i>					
<b>Degree of study :</b> <i>the 1<sup>st</sup> degree of study (Bachelor's degree)</i>					
<b>Course prerequisites:</b>					
<b>Assessment methods:</b> <i>The active participation in the exercises according to study regulations, development and defense of laboratory protocols.</i>					
<b>Learning outcomes of the course unit:</b> <i>he student is able to design textile and clothing layers to predict the thermal insulation properties of the textile and clothing comfort.</i>					
<b>Course contents:</b> <i>Interaction "human - clothing - climate", the thermal management system human, the thermal balance in the garment.</i> <i>Clothes quasi-physiological system, heat transport, liquid and gaseous media through the fabric layer, diffusion through the pores, adsorption, ventilation.</i> <i>Comfort and discomfort of textiles.</i> <i>Contact the properties of textile materials and a skin-sensory perceptions, allergies.</i> <i>Structure and macromorphology structure of fibers and textile materials, surface biophysical properties below clothes microclimate.</i> <i>Hygienic and barrier properties of textiles protection against solar radiation, microorganisms, etc. New materials for clothing and household textiles - integrated and intelligent textile fabrics - in terms of physiology and comfort in use.</i>					
<b>Recommended of required reading:</b> <i>1. LIZÁK, P. – MURÁROVÁ, Z.: Komfort odevov, (1. vydanie). Krakow: TOWARZYSTWO SLOWAKÓW W POLSCE, 2013. 128 s. ISBN 978-83-7490-694-4.</i>					
<b>Language:</b> <i>Slovak</i>					
<b>Remark:</b> <i>The capacity of the subject is limited space laboratory and instrumentation equipment for a maximum of 10 students during exercise</i>					
<b>Evaluation history:</b>					
A	B	C	D	E	FX
<b>Lecturers:</b> <i>doc. Ing. Pavol Lizák, PhD, Ing. Jela Legerská, PhD.</i>					
<b>Last modification:</b> <i>16.03.2015</i>					
<b>Supervisor:</b> <i>doc. Ing. Pavol Lizák, PhD.</i>					