

## Information sheet for the course Colorimetry

<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-29</i>			<b>Course unit title:</b> <i>Colorimetry</i>		
<b>Type of course unit:</b> <i>compulsory</i>					
<b>Planned types, learning activities and teaching methods:</b> <i>Lecture: 1 hour weekly/13 hours per semester of study; face to face</i> <i>Seminar: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Laboratory tutorial: 0</i>					
<b>Number of credits:</b> <i>3</i>					
<b>Recommended semester:</b> <i>the 5<sup>th</sup> semester in the 3<sup>rd</sup> year full-time form of study</i> <i>the 7<sup>th</sup> semester in the 4<sup>th</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> <i>TTN-P-4 Basic of chemistry</i>					
<b>Assessment methods:</b> <i>Creation and presentation of 1 – 2 semester tasks</i>					
<b>Learning outcomes of the course unit:</b> <i>The student can apply the results of mixing colours to textile and predict the results of mixing colored solutions or colour deposited on paper or fabric. Understands to principles of objective evaluation of colour and mathematical description of colour. Also understand what types of colours are used for coloring of various materials and why. Reactive dyes are suitable for the cotton, disperse dyes for the PES and for the printing are suitable pigments.</i>					
<b>Course contents:</b> <i>Introduction, basic concepts in coloristic.</i> <i>Colour mixing – additive and subtractive.</i> <i>Colour from the physical and chemical point of view.</i> <i>Evaluation of colour – colour atlases.</i> <i>Objective assessment of colour CIE system.</i> <i>Basic colouring used for various substrates, with an emphasis on textile materials.</i>					
<b>Recommended of required reading:</b> <i>KOLORISTIKA, VŠ skriptum, autor: I. Sroková, TnUAD, 2007</i>					
<b>Language:</b> <i>Slovak</i>					
<b>Remarks:</b> <i>-</i>					
<b>Evaluation history:</b>					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
<b>Lecturers:</b> <i>Ing. Vladimíra Krmelová, PhD.</i>					
<b>Last modification:</b> <i>16.03.2015</i>					
<b>Supervisor:</b> <i>doc. Ing. Pavol Lizák, PhD.</i>					