

## Information sheet for the course CAE Methods in the Practice of Design

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>					
<b>Faculty:</b> <i>Faculty of special technology</i>					
<b>Course unit code:</b> <i>ŠST/I/4-59/d</i>			<b>Course unit title:</b> <i>CAE Methods in the Practice of Design</i>		
<b>Type of course unit:</b> <i>compulsory</i>					
<b>Planned types, learning activities and teaching methods:</b> <i>2 hours laboratory exercises per week face to face</i>					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> <i>1<sup>st</sup> semester in the 1<sup>st</sup> year (full-time)</i> <i>1<sup>st</sup> semester in the 1<sup>st</sup> year (part-time)</i>					
<b>Degree of study:</b> <i>II. (engineer)</i>					
<b>Course prerequisites:</b> <i>none</i>					
<b>Assessment methods:</b> <i>Final assessment: Min. 85% participation in exercises smax. 2 justified by the absence, preparation, submission and evaluation of term papers as required by instructor.</i>					
<b>Learning outcomes of the course unit:</b> <i>The student can analyze and synthesize large and specialized factual knowledge, focusing on understanding the topics of computer aided engineering, where in the life cycle of a product used solely Computing. Reported different types of models are used as input data to the process simulation, the important role of software and hardware computer equipment.</i>					
<b>Course contents:</b> <i>Modeling and simulation using CATIA V5R20 environments: DMU Kinematics, Generative Structural Analysis, Reverse Engineering 1 - creation part of the data from a 3D scanner, 2 Reverse Engineering - modeling using 2D views, demonstration of 3D printing.</i>					
<b>Recommended of required reading:</b> <i>TICKOO, S.: CATIA - kompletní průvodce, Computer Press, Brno 2012, ISBN 978-80-251-3527-3.</i> <i>KUTIŠ, V.: Základy modelovania a simulácií, Vydavateľstvo STU Bratislava, 2010, 133 s., ISBN 978-80-227-3345-8.</i> <i>Dassault Systèmes: Dokumentacia CATIA V5R20.</i>					
<b>Language:</b> <i>Slovak</i>					
<b>Remarks:</b> <i>The subject is provided in the winter semester 1. year of full-time study. Subject is required.</i>					
<b>Evaluation history:</b> <i>Total number of students being evaluated: 228</i>					
A	B	C	D	E	FX
33,77	39,47	19,3	5,7	1,75	0,0
<b>Lecturers:</b> <i>Ing. Pavol Tököly, PhD. - lecture</i>					
<b>Last modification:</b> <i>15.4.2014</i>					
<b>Supervisor:</b> <i>prof. Ing. Jiří Balla, CSc., guarantee of the study program "Special Mechanical Engineering Technology".</i>					