

## Information sheet for the course Computer-assisted design II

<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>UŠMT/I/4-56/d</i>			<b>Course unit title:</b> <i>Computer-assisted design II</i>		
<b>Type of course unit:</b> <i>compulsory</i>					
<b>Planned types, learning activities and teaching methods:</b> <i>2 hour seminar per week</i>					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> <i>2<sup>st</sup> semester in the 1<sup>st</sup> year (full-time)</i> <i>2<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>ŠST/I/4-59/d CAE metods in practice design</i>					
<b>Assessment methods:</b> <i>Final assessment: at least 85% participation in exercises, maximum 2 absences, processing, submit and evaluation of semester assignments.</i>					
<b>Learning outcomes of the course unit:</b> <i>The student will acquire basic knowledge of surface modeling in CATIA V5R20. The modules WSD and GSD will be presented functions to create a wire geometry, fundamental and complex areas of operations, including the geometry of surface analysis and surface changes on the solid model.</i>					
<b>Course contents:</b> <i>Creating elements of wire models, creating surfaces - extended, rotating, cylindrical, offset, drawn. Creating transition surfaces and surfaces extruded of multiple profiles. Operations on areal geometry - connecting, sorting, trimming surfaces. Surface operations - creating a cross-sectional design elements, repair geometry, layout elements, restore the trim surfaces and curves, creating of boundary curves, extracting of geometry, transformation functions, extrapolation of curves and surfaces, separation a solid bodies by surfaces, modification of surfaces models on solid models, analysis of wire and areal geometry.</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>Dassault Systemes: Dokumentation CATIA V5R20.</i>					
<b>Language:</b> <i>Slovak</i>					
<b>Remarks:</b> <i>The subject is provided in the summer semester in the first year of full-time study. Compulsory subject.</i>					
<b>Evuation history</b> <i>Total number of student being evaluated: 195</i>					
A	B	C	D	E	FX
41,03	33,85	18,46	4,1	2,05	0,51
<b>Lectures:</b> <i>Ing. Pavol Tököly, PhD. - assistant instructor</i> <i>Ing. Ludmila Šimoňáková, PhD. - assistant instructor</i>					
<b>Last modification:</b> <i>15.4.2014</i>					
<b>Supervisor:</b> <i>prof. Ing. Alexej Chovanec, CSc., guarantee of the study program „Maintenance and Repair of Special Mobile Technology“.</i>					