

Information sheet for the course Computer-assisted design II

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of special technology</i>					
Course unit code: <i>ŠST/I/4-56/d</i>			Course unit title: <i>Computer-assisted design II</i>		
Type of course unit: <i>compulsory</i>					
Planned types, learning activities and teaching methods: <i>2 hour seminar per week face to face</i>					
Number of credits: <i>3</i>					
Recommended semester: <i>2nd semester in the 1st year (full-time)</i> <i>2nd semester in the 1st year (part-time)</i>					
Degree of study: <i>II. (engineer)</i>					
Course prerequisites: <i>ŠST/I/4-59/d CAE methods in practice design</i>					
Assessment methods: <i>Final assessment: at least 85% participation in exercises, maximum 2 absences, processing, submit and evaluation of semester assignments.</i>					
Learning outcomes of the course unit: <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>					
Course contents: <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>					
Recommended of required reading: <i>TICKOO, S.: CATIA - kompletní průvodce, Computer Press, Brno 2012, ISBN 978-80-251-3527-3,.</i> <i>Dassault Systemes: Dokumentation CATIA V5R20.</i>					
Language: <i>Slovak</i>					
Remarks: <i>The subject is provided in the summer semester in the first year of full-time study. Compulsory subject.</i>					
Evuation history <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
Lectures: <i>Ing. Pavol Tököly, PhD. - assistant instructor</i> <i>Ing. Ludmila Šimoňáková, PhD. - assistant instructor</i>					
Last modification: <i>15.4.2014</i>					
Supervisor: <i>prof. Ing. Jiří Balla, CSc., guarantee of the study program "Special Mechanical Engineering Technology".</i>					