nformation sheet for the course
CAE Methods in the Practice of Design

University: *Alexander Dubček University of Trenčín*	
Faculty: *Faculty of special technology*	
Course unit code: *SŠT/I/4-59/d*	**Course unit title:** *CAE Methods in the Practice of Design*

Type of course unit: *compulsory*
Planned types, learning activities and teaching methods: *2 hours laboratory exercises per week*
Number of credits: *2*
Recommended semester: *1st semester in the 1st year (full-time)*   *1st semester in the 1st year (part-time)*
Degree of study: *II. (engineer)*
Course prerequisites: *none*
Assessment methods: *Final assessment: Min. 85% participation in exercises smax. 2 justified by the absence, preparation, submission and evaluation of term papers as required by instructor.*
Learning outcomes of the course unit: *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.*
Course contents: *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.*
Recommended of required reading: *TICKOO, S.: CATIA - kompletní průvodce, Computer Press, Brno 2012, ISBN 978-80-251-3527-3.*   *KUTIŠ, V.: Základy modelovania a simulácií, Vydavateľstvo STU Bratislava, 2010, 133 s., ISBN 978-80-227-3345-8.*   *Dassault Systémes: Dokumentacia CATIA V5R20.*
Language: *Slovak*
Remarks: *The subject is provided in the winter semester 1. year of full-time study. Subject is required.*
Evaluation history: Total number of students being evaluated: 228

A	B	C	D	E	FX
33,77	39,47	19,3	5,7	1,75	0,0

Lecturers: *Ing. Pavol Tököly, PhD. - lecture*
Last modification: *15.4.2014*
Supervisor: *prof. Ing. Alexej Chovanec, CSc., guarantee of the study program „Maintenance and Repair of Special Mobile Technology".*