

Information sheet for the course Software Applications

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>					
Course unit code: <i>MI-PV-14</i>			Course unit title: <i>Software Applications</i>		
Type of course unit: <i>optional</i>					
Planned types, learning activities and teaching methods: <i>Lecture: 0</i> <i>Seminar: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Laboratory tutorial: 0</i>					
Number of credits: <i>2</i>					
Recommended semester: <i>the 5th semester in the 3rd year of the full-time form of study,</i> <i>the 5th semester in the 3rd year of the part-time form of study.</i>					
Degree of study: <i>the 1st degree of study (Bachelor's degree)</i>					
Course prerequisites: <i>none</i>					
Assessment methods: <i>To accomplish the given subject, student is obliged to elaborate and defence the predetermined semestral or terminal work which is connected with numerical solution of the specified task and student has to use the predetermined software application including ADINA, COSMOS M, MARC, MATLAB, CORELL, DYTRAN, PATRAN, MODEL 3D, ADAMSP, PROENGINEER-CREO, SOLIDWORKS.</i>					
Learning outcomes of the course unit: <i>Student is able to solve the simple specific tasks with utilisation of the commercial software, which is commonly used in the field of statics as well as dynamics and moreover, this software is based on the finite element method (FEM). Using the knowledge relating to this subject, students can select the most suitable and appropriate commercial software to be the most precise and accurate from the aspect of various problems solutions relating to real practise.</i>					
Course contents: <i>The content of the given subject is based on utilisation and application of commercial software systems, which are available in Faculty of Industrial Technologies: ADINA, COSMOS M, MARC, MATLAB, CORELL, DYTRAN, PATRAN, MODEL 3D, ADAMS, PROENGINEER-CREO, SOLIDWORKS.</i>					
Recommended or required literature: <i>Manual books relating to software systems mentioned above.</i>					
Language: <i>Slovak</i>					
Remarks: <i>—</i>					
Evaluation history: /Grading system/					
A	B	C	D	E	FX
<i>Excellent</i>	<i>Laudable</i>	<i>Good</i>	<i>Accepted results</i>	<i>Pass</i>	<i>Fail</i>
Lecturers: <i>prof. Ing. Ján Vavro, PhD., doc. Ing. Ján Vavro, PhD.</i>					
Last modification: <i>31.03.2014</i>					
Supervisor: <i>prof. Ing. Darina Ondrušová, PhD.</i>					