

**Information sheet for the course
Seminar in Mechanics of Solid Bodies II**

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>					
Course unit code: <i>MT-PV-8</i>			Course unit title: <i>Seminar in Mechanics of Solid Bodies II</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 4th semester in the 2nd year of the full-time form of study,</i> <i>the 4th semester in the 2nd 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 be present at the lessons with the reference to specifications introduced in the study rules for the given study programme. He/she is also obliged to pass the test successfully while the conditions relating to test are predetermined.</i>					
Learning outcomes of the course unit: <i>Student has acquired and is familiar with all required and fundamental principles relating to the most important systems of mechanics and moreover he/she has improved the knowledge and skills during the solution of the characteristic practical tasks or exercises resulting from MT-P-22 (Mechanics of Solid Bodies II). Student is familiar with practical approaches and applications relating to kinematic as well as dynamic solution of mass point systems. He/she is also familiar with virtual procedures and application relating to static solution of bar constructions as well as vibration of mass point with one degree of freedom and more degrees of freedom.</i>					
Course contents: <i>Solution of comprehensive and more difficult exercises which result from knowledge obtained during the lessons of MT-P-22 (Mechanics of Solid Bodies II) or in other words, the given exercises are closely connected with the individual topics which are presented during the Lecturers referring to MT-P-22 (Mechanics of Solid Bodies II).</i>					
Recommended or required literature: <i>1. Brousil, Slavík, Zeman: Dynamika, SNTL Praha, 1989</i> <i>2. BRAT, V.: Příručka kinematiky s příklady, 1976.</i> <i>3. JANČINA, J., PEKÁREK, F.: Mechanika II - Kinematika, SNTL Bratislava 1987.</i> <i>4. Juliš, K., Brepta, R.: Mechanika I, II, SNTL Praha 1987.</i> <i>5. JULIŠ, K., BREPTA, R. a kol.: Mechanika II, Dynamika, SNTL, Praha 1987.</i> <i>6. Medvec, Stradiot, Záhorec, Caban: Mechanika III, Dynamika, SNTL Praha, 1988</i> <i>7. Vavro, Husár: Laboratorne cvičenia z mechaniky, Žilina, 1995</i> <i>8. Vavro, J. - Kopecký, M.: Nové prostriedky a metódy riešenia sústav telies I. 1.vyd. ZUSI Žilina 2001. ISBN 80-968605-0-X.str. 117.</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>doc. Ing. Marta Kianicová, PhD.</i>