

Information sheet for the course Mechanics of Bodies III

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>					
Course unit code: <i>PP-P-29</i>			Course unit title: <i>Mechanics of Bodies III</i>		
Type of course unit: <i>compulsory</i>					
Planned types, learning activities and teaching methods:					
<i>Lecture: 2 hours weekly/26 hours per semester of study; face to face</i>					
<i>Seminar: 1 hours weekly/13 hours per semester of study; face to face</i>					
<i>Laboratory tutorial: 0 hours</i>					
Number of credits: <i>5</i>					
Recommended semester: <i>5th semester in the 3rd year full-time</i> <i>5th semester in the 3rd year part-time</i>					
Degree of study: <i>the 1st degree of study (Bachelor's degree)</i>					
Course prerequisites: <i>PP-P-14 Mechanics of Bodies I, PP-P-21 Mechanics of Bodies II.</i>					
Assessment methods: <i>Semestral work, Test</i>					
Learning outcomes of the course unit: <i>The student knows the methodology of calculation of strength and deformation of supporting structures and their elements. Does propose a simple support structure to perform its function at the time of their life.</i>					
Course contents: <i>Flexibility and strength. Thick-walled pressure vessels. Simple tensile stress, pressure. Rotating blades. Tension and strain. Interference fit. Tightness uniaxial, biaxial, spatial. Hypotheses flexibility and strength. Bending and deflection of beams. Twisting, stress and deformation in torsion. Combined stress, strain and deformation.</i>					
Recommended of required reading:					
<i>KOPECKÝ M., GOMOLA A., PODOLEC O.: Pružnosť a pevnosť I. - skripta, ALFA Bratislava, 2. vydanie r. 1990.</i>					
<i>CÚTH V., TÓTH L.: Pružnosť a pevnosť, ES VŠDS Žilina, 1995.</i>					
<i>HÖSCHL O.: Pružnosť a pevnosť ve strojírenství, SNTL/ALFA Praha, 1971.</i>					
<i>MIROLJUBOV I.N. a kol.: Riešenie úloh z pružnosti a pevnosti, SNTL Praha, II. vydanie, r. 1981.</i>					
Language: <i>Slovak</i>					
Remarks:					
Evaluation history:					
A	B	C	D	E	FX
Lecturers: <i>prof. Ing. Ján Vavro, PhD., doc. Ing. Ján Vavro, PhD. Ing. Petra Kováčiková, PhD.</i>					
Last modification: <i>31.03.2015</i>					
Supervisor: <i>doc. Ing. Ján Vavro, PhD.</i>					