Information sheet for the course Mechanics of Solid Bodies III

University: Al	exander Dubček	University of T	Frenčín			
Faculty: Faculty of Industrial Technologies in Púchov						
Course unit co	Course unit code: <i>MT-P-30</i> Course unit title: <i>Mechanics of Solid Bodies III</i>					
Type of course unit: compulsory						
Planned types, learning activities and teaching methods:						
Lecture: 2 hours weekly/26 hours per semester of study: face to face						
Seminar: 2 hours weekly/26 hours per semester of study						
Laboratory tutorial:0						
Number of credits: 5						
Recommended semester:						
the 5^{th} semester in the 3^{rd} vear of the full-time form of study.						
the 5 th semester in the 3^{rd} vear of the part-time form of study.						
Degree of study: the 1 st degree of study (Bachelor's degree)						
Course prerequisites:						
accomplishment of MT-P-15 (Mechanics of Solid Bodies I), MT-P-21 (Mechanics of Solid Bodies II).						
Assessment methods:						
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						
prepare and defend the determined semestral or terminal work as well as he/she has to pass the test						
successfully.						
Learning outcomes of the course unit:						
Student has acquired and is familiar with all required and fundamental principles relating to the methods						
which are closely connected with strength calculations and deformations of supporting constructions (frames, hears) and their features or constituents parts. He/she is able to design simple supporting						
(<i>frames, beams)</i> and their features of constituents parts. He/sne is uple to design simple supporting						
Course contents:						
Flasticity and strength Thick-walled vessels under the pressure Tensile and pressure loading Rotating						
disks Stress and strain (deformation) Press shrink and expansion fitting Uniaxial hiaxial and triaxial						
stress. Hypotheses relating to elasticity and strength. Bending and deformation of beams. Torsion, stress						
and deformation under the torsional loading. Combination of loadings, stresses and subsequent						
deformation.						
Recommended or required literature:						
KOPECKÝ M., GOMOLA A., PODOLEC O.: Pružnosť a pevnosť I skripta, ALFA Bratislava, 2. vydanie r. 1990.						
CUTH V., TOTH L.: Pružnosť a pevnosť, ES VSDS Zilina, 1995.						
HOSCHL O.: Pruznost a pevnost ve strojirenstvi, SNIL/ALFA Praha, 19/1.						
MIROLJODOV I.N. a kol.: Klesenie ulon z pruznosu a pevnosti, SNIL Prana, II. vyaanie, r. 1981.						
Language: stovak						
Kemarks: —						
Evaluation instory: /Grading system/						
A	B	$\frac{C}{C}$	D	E		
<i>Excellent</i>	f Inc. I'm V	GOOd	Accepted results	Pass	rau	
Lecturers. proj. Ing. Jan v avro, 1 nD., auc. Ing. Jan v avro, F nD.						
Last modificat	ion: 51.03.2014	· · / DID				
Supervisor: aoc. ing. maria Kianicova, PhD.						