

Information sheet for the course Machine Parts and Mechanisms I

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of special technology</i>					
Course unit code: <i>ŠST/B/4-45/d</i>			Course unit title: <i>Machine Parts and Mechanisms I</i>		
Type of course unit: <i>compulsory</i>					
Planned types, learning activities and teaching methods: <i>2 lecture hours and 2 hour seminars per week</i>					
Number of credits: <i>4</i>					
Recommended semester: <i>4st semester in the 2st year of study /full-time / 5st semester in the 2st year of study /part-time /</i>					
Degree of study: <i>I.</i>					
Course prerequisites: <i>ŠST/B/4-12/d Basics of Design</i>					
Assessment methods: <i>Continuous assessment: Min. 85% participation in exercises, max. 2 absences, test, development, transfer and classification of semester assignments. For exercise you can get max. 40 points. Final assessment: test in a written test. Point-rated evaluation criteria: (E) ≥ 56 points, (D) ≥ 65 points (C) ≥ 74 points (B) ≥ 83 points (A) ≥ 92 points.</i>					
Learning outcomes of the course unit: <i>The student can analyze factual knowledge, principles and processes, general concepts in broad contexts of work function, designing, dimensioning and design of basic kinds of components.</i>					
Course contents: <i>Limit states and parts of structures, fatigue stress, contact fatigue stress. Connections: screw, clamping, molded, riveted, welded, glued and soldered joints. Parts for power transmission twisting motion: axes, shafts, bearings. Spring. Couplings.</i>					
Recommended of required reading: <i>BOŠANSKÝ a kol.: Konštruovanie 1 - Konštrukčné prvky, Vydavateľstvo STU, 2009, 211 s., ISBN 978-80-227-3161-4, BOLEK, A. - KOCHMAN, J. a kol.: Časti strojů I, SNTL Praha, 1989, 776 s., ISBN 80-03-00046-7, BOHÁČEK, F. a kol.: Časti a mechanismy strojů I. Zásady konstruování - spoje. Skriptá VUT Brno, 1984, 319 s., BOHÁČEK, F. a kol.: Časti a mechanismy strojů II. Hriadele, tribológia, ložiska. Skriptá VUT Brno, 1983, 215 s., NĚMEC, A., BOHÁČEK, F.: Časti strojů III. Hřídele, ložiska a spojky, VUT Brno 1964, 308 s., MÁLIK, L. a kol.: Časti a mechanismy strojov. EDIS - vydavateľstvo ŽU, Žilina 2003.</i>					
Language: <i>Slovak</i>					
Remarks: <i>The subject is provided in the summer semester in the second year of full-time study. Compulsory subject.</i>					
Evaluation history <i>Total number of students being evaluated: 30</i>					
A	B	C	D	E	FX
13,32	13,32	6,66	9,9	43,30	13,32
Lecturers: <i>prof. Ing. Jozef Turza, CSc. - lecturer Ing. Pavol Tököly, PhD. - assistant instructor</i>					
Last modification: <i>15.4.2014</i>					
Supervisor: <i>prof. Ing. Jiří Balla, CSc., guarantee of the study program "Special Mechanical Engineering Technology".</i>					