Information sheet for the course
Machine Parts and Mechanisms II

University: *Alexander Dubček University of Trenčín*

Faculty: *Faculty of special technology*

Course unit code: *SaOA/B/4-46/d* | **Course unit title:** *Machine Parts and Mechanisms II*

Type of course unit: *compulsory*

Planned types, learning activities and teaching methods:
2 lecture hours and 2 hour seminar per week, attendance teaching method.

Number of credits: *3*

Recommended semester: *5th semester in the 3rd year (full-time)*
5th semester in the 3rd year (part-time)

Degree of study: *I. (bachelor)*

Course prerequisites: *ŠST/B/4-45d Machine Parts and Mechanisms I*

Assessment methods:
Continuous assessment: at least 85% participation in exercises, maximum 2 absences, test, processing and submit of semester assignments. Credit: submit processed tasks and get 20 points out of a possible 40 points. Final assessment: test in a written test (maximum 60 points). Point-raited evaluation criteria from a total of 100 points: (E) ≥ 56 points, (D) ≥ 65 points, (C) ≥ 74 points, (B) ≥ 83 points, (A) ≥ 92 points.

Learning outcomes of the course unit:
The student has knowledge of analysis and synthesis of mechanisms for mechanical power transmission, focuses on learning about the function, designing, dimensioning and construction of various construction elements.

Course contents:
Methodology of design of transmission mechanisms, basic terminology. Flexible couplings - calculation method worst-case load. Spur and bevel gears. Strength calculation of spur and bevel gears. Planetary mechanisms. Chain and belt drives.

Recommended of required reading:
BOŠANSKÝ, M. a kol.: Konštruovanie II – Konštrukčné uzly, STU Bratislava, 2011, 326 s., ISBN 978-80-227-3510-0,
BOLEK, A. – KOCHMAN, J. a kol.: Části strojů 2, SNTL Praha, 1990, 712 s., ISBN 80-03-00426-8,
NĚMEC, A., BOHÁČEK, F.: Části strojů III. Hřídele, ložiska a spojky, VUT Brno 1964, 308 s.,
MÁLIK, L. a kol.: Časti a mechanizmy strojov. EDIS - vydavateľstvo ŽU, Žilina 2003,
ŠVEC, V.: Části a mechanizmy strojů. Ozubené převody., ČVUT Praha, 1986, 240 s.

Language: *Slovak*

Remarks: *The subject is provided in the winter semester in the third year of full-time study.*

Evuation history
Total number of student being evaluated: 210

A	B	C	D	E	FX
15,24	23,33	25,24	21,43	14,29	0,48

Lectures: *prof. Ing. Jozef Turza, CSc. – lecturer*
Ing. Pavol Tököly, PhD. – lecturer, assistant instructor

Last modification: *15.4.2014*

Supervisor:
Assoc.prof. Alexej Chovanec, PhD., guarantee of the study program "Vehicles Maintenance and Repair"