Information sheet for the course: Selected Chapters from the Mechanics of Bodies I

of Bodies I						
University: Alexander Dubček University	ity of Trenčín					
Faculty: Faculty of Industrial Technolog	ies in Púchov					
Course unit code: PP-P-15	Course unit title: Selected Chapters from the Mechanics of Bodies I					
Form, scope and meth od of educationa	al activity:					
Form of study: Lecture / Seminar / Labo						
Recommended number of lessons (hour	-					
Weekly: 2 / 2 / 0 During the semester:						
Number of credits: 5						
Recommended semester: 3						
Degree of study: The 1st degree of study	,					
Course prerequisites:						
Assessment methods:						
Assessment during the semester:						
Summary assessment of work results duri	ing the semester $= 40$ points					
Independent work during the semester.						
1 0	thesis, which consists of the numerical solution of					
assigned tasks.	,					
e	n the interim evaluation can apply for the exam.					
Final assessment:						
Assessment of exam results $= 60$ points						
The exam is conducted in written form.						
Grading scale:						
Grade A: 91 – 100 points						
Grade B: 81 – 90 points						
Grade C: 71 – 80 points						
Grade D: 61 – 70 points						
Grade E: 55 – 60 points						
Grade FX: less than 55 points						
Learning outcomes of the course unit:						
	d can independently solve tasks and use the acquired					
•	nics (equilibrium of a point, equilibrium of a body,					
	tems, passive resistances, kinematics of a point and a					
body).						
Course contents: Basic terms and quantities Axioms a	and basic theorems. Power systems. Static links.					
1	stem of bodies. Center of gravity of the body. Rod					
	ematics of a point and a body, determining the path,					
	ody. Sliding, rotational and general plane movement					
of the body, spatial movement of the body						
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Recommended of required reading:

1. Ferdinand P. Beer, E. Russell Johnston, Jr.: Vector Mechanics for Engineers, Statics and Dynamics, 1988 USA, ISBN 0-07-079923-7.

- 2. VAVRO JÁN: Kinematic and Dynamic Analysis of Planar Mechanisms by Means of the SolidWorks Software, Tribun EU s. r. o., Brno, 2020.
- 3. VAVRO, J., KOPECKÝ, M.: Nové prostriedky a metódy riešenia sústav telies I, ZUSI v Žiline 2001, ISBN 80-968605-0-X.
- 4. Vavro Ján: Mechanika I ,E-learning , Fakulta priemyselných technológií so sídlom v Púchove, TnUAD v Trenčíne, 2011,ISBN 978-80-8075-725-0.

Language:

English

Remarks:

Compulsory course / Profile course

Evaluation history: 0

Total number of graded students:

А	В	С	D	Е	FX	
0.0	0.0	0.0	0.0	0.0	0.0	
Lastranova prof. Ing. Ján Varra CSa						

Lecturers: prof. Ing. Ján Vavro, CSc.

Last modification: 31.08.2022

Supervisor: doc. Ing. Ján Vavro, PhD.