Information sheet for the course Selected Chapters from Mechanics of Solid Bodies

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University: Alexander Dubcek University of Trencin						
Faculty: Faculty of Industrial Technologies in Puchov						
Course unit code: <i>MI-P-20</i> Course unit title: Selected Ch Bodies	apters from Mechanics of Solid					
Type of course unit: <i>compulsory</i>						
Planned types, learning activities and teaching methods:						
Lecture: 2 hours weekly/26 hours per semester of study; face to face						
Seminar: 2 hour weekly/26 hours per semester of study: face to face						
Laboratory tutorial: 0						
Number of credits: 4						
Recommended semester:						
the 3^{rd} semester in the 2^{nd} year of the full-time form of study						
the 3^{rd} semester in the 2^{nd} year of the part-time form of study.						
Degree of study: the 1 st degree of study (Bachelor's degree)						
Course prerequisites: none						
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 pro	gramme. He/she is also obliged to					
prepare and defend the determined semestral or terminal work,	while the given work consists of					
numerical resolution relating to three specified tasks including bar of	construction, beam construction and					
solid entity system.						
Learning outcomes of the course unit:						
Student has acquired and is familiar with all required and fundamental principles in the field of the most						
important systems of mechanics. He/she is able to solve the tasks and problems relating to vector						
mechanics (point balance, solid entity balance, balance of solid enti	ty systems or constructions, passive					
resistances as well as kinematics of point and solid entity).						
Course contents:						
Fundamental terms and variables. Axioms and fundamental rules. For	orce systems. Static connections and					
relationships. Point balance, solid entity balance and balance of solid entity systems as well as						
constructions. Centre of gravity for solid entity. Bar constructions. Friction. Introduction to kinematics of						
point, solid entity and determination of distance as well as speed a entity Linear rotation and any other types of 2-D motion for solid en	tity 3-D motion for solid entity					
Recommended or required literature:	liy. 5-D motion for solid entity.					
<i>L VAVPO I VAVPO I mL: MECHANIKA I Statika Fakulta priamusalmish tashnológii so</i>						
sídlom v Púchova ThUAD v Trančína 2011						
2 VAVBO I TVADŮŽEK I Statika príklady ŽUJ Žilina 1006 ISBN 80 7100 381.6						
2. VAVRO, J., IVARULLIR, J., SIUIIKU – PRIKUUY, LU V LIUNE 1990, ISDIV 00-7100-301-0. 3. VAVRO I KOPECKÝ M · Nová prostriadlav a metády rieženia sústav telica I ZUSI						
v Žiline 2001 ISBN 80-968605-0-X						
4 IANČINA I PEKÁREKE · Kinematika Alfa Bratislava 1087						
T. JANCHVA, J., TEKAKEK, F., KINCHUUKU, AIJU DI UUSUUVU1707						
Remarks:						
Evaluation history: /Crading system/						

Evaluation history: /Grading system/								
	А	В	С	D	Е	FX		
	Excellent	Laudable	Good	Accepted results	Pass	Fail		
Lecturers: prof. Ing. Ján Vavro, PhD., doc. Ing. Ján Vavro, PhD.								

Last modification: 31.03.2014 Supervisor: prof. Ing. Darina Ondrušová, PhD.