## Information sheet for the course Seminar on fundamentals of engineering mechanics

University: Alexander Dubček Unive	ersity of Trend	čín		
Faculty: Faculty of special technolog	IV IIII			
<b>Course unit code:</b> <i>MŠT/B/4-24/d</i>		nit title: Semir	nar on fundament	als of
Type of course unit: optional	engineeri	ng meenames		
Planned types, learning activities and	nd teaching i	nethods:		
Tutorial 2 hour weekly, face to face n		nethous.		
Number of credits: <i>1</i>				
<b>Recommended semester:</b> 2 <sup>st</sup> semester	in the 1 <sup>st</sup> vea	r (full-time)		
$3^{rd}$ semester in the $2^{nd}$ year (part-time)		Ū /		
Degree of study: I. (bachelor)				
Course prerequisites: none				
Assessment methods:				
Final score - credit: 100% active par	ticipation in	the exercises, a	lemonstrate basic	c knowledge in
the course of the semester, timely tran	-			C
Learning outcomes of the course un	nit:			
The student can analyze factual knowledge, principles and processes, general concepts in broad				
contexts in engineering mechanics and is designed especially for non-technical secondary school				
graduates. It deals with the fundament	tals of statics	and kinematic	<i>S</i> .	
Course contents:				
The seminar of statics and kinemati	cs rehearse	listeners calcu	lation: balance b	peam, a three-
member system of bodies, the four forces in the plane of the body. Center of gravity, trusses,				
brakes, and equilibrium reaction force in the mechanism. Relative curvilinear motion of a				
particle, sliding, rotating movement of the body. Geometric kinematics of the mechanism.				
Analytical vector method, the Corid	olis decompo	sition. The bas	sic decomposition	n. Calculation
examples as necessary.				
Recommended of required reading				
ŽIARAN, S.: Technická mechanika St				
JANČINA, J Pekárek, F.: Kinematika, Bratislava, Alfa 1987.				
BRAT, V.: Příručka kinematiky s přík				
DUHÁR,A REHUŠ, M.: Príklady z k	cinematiky, no	ávody na cvičer	iia, Bratislava, A	lfa 1988.
Language: Slovak				
Remarks:				
Evaluation history	1 20			
Total number of students being evaluation			5	
A B	C	D	E	FX
20.13 15.1	16.48	15.34	32.93	0
Lecturers: Ing. Lenka Bartošová, Ph	<i>D</i> .			
Last modification: 15.4.2014			1	() ( )
Supervisor: Assoc. prof. Ing. Peter L	ipták, CSc., g	guarantee of the	e study program '	`Mechanisms
in Special Technology".				