## Information sheet for the course Fundamentals of Engineering Design

University: Alex	ander Dubček U	niversity of Tren	čín		
Faculty: Faculty	v of special techn	ology			
Course unit coo	<b>unit code:</b> SaOA/B/4-12/d <b>Course unit title:</b> Fundamentals of Engineering Design				
Type of course	unit: compulsor	0			
	• •		methods:		
<b>Planned types, learning activities and teaching methods:</b> 2 lecture hours and 2 hour seminar per week, attendance teaching method.					
Number of credits: 5					
<b>Recommended semester:</b> 1 <sup>st</sup> semester in the 1 <sup>st</sup> year (full-time)					
1 <sup>st</sup> semester in the 1 <sup>st</sup> year (part-time)					
Degree of study:	I. (bachelor)				
Course prerequ	isites: none				
Assessment me	ethods: Continu	ious assessment	at least 85%	<i>b</i> 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: $(E) \ge 56$					
points, (D) $\geq 65$ points, (C) $\geq 74$ points, (B) $\geq 83$ points, (A) $\geq 92$ points.					
Learning outcomes of the course unit: The student has knowledge of cross-department					
focusing on application usage at the level corresponding to the current state of knowledge,					
provide theoretical knowledge and understand the basic rules for creating and reading technical					
documentation of simple machine parts and assembly units according to STN standarts.					
		cumentation and			
technical documentation. Projection and dimensioning on the technical documentations					
Surface roughness. Classification of dimensions. Functional and technological dimensioning.					
Technical materials. ISO tolerance systems for limits and fits. Dimensional and geometric					
tolerances. General dimensional and geometrical tolerances. Machine components: bolted joint,					
pins, cotters, keys, circlip, shafts, springs, bearings, molded, riveted, welded and brazed joints.					
Transmission mechanisms: gears, chain drives, belt drives.					
Recommended					
NEMČEKOVÁ, M.: Základy strojného inžinierstva. 1.vyd STU Bratislava, SjF STU Bratislava,					
2012, ISBN 978-80-227-3799-9.					
ANTALA, J.: Základy strojného inžinierstva. 1.vyd STU Bratislava, SjF STU Bratislava, 2012,					
ISBN 978-80-227-3772-2.					
SVOBODA, P. a kol.: Základy konstruování. 4.vyd. – Akademické nakladatelství Cerm Brno,					
2011, 234 s. ISBN 978-80-7204-750-5. MEDVECKÝ, Š. a kol.: Konštruovanie 1. [2. vyd. – ŽU Žilina, 2007. ISBN 978-80-807-0640-9.					
<i>VÁVRA, P. a kol: Strojnícke tabuľky.</i>					
Language: Slov	0	iny.			
Remarks:	un				
	ovided in the wir	nter semester of th	he first vear of fu	ll_time study	
		er of student bein			
A	B	C	D	Е	FX
2,12	6,19	12,92	21,77	39,29	17,7
2,12	0,17	14,74	<i>4</i> 1,//	57,47	11,1
Lectures: prof.	Ing. Ján Vavro. (	CSc. – lecturer			
	-	er, assistant insti	ructor		
Last modificati	*				
		ovanec. CSc., gu	arantee of the stu	dv program "Ve	ehicles

**Supervisor:** *prof. Ing. Alexej Chovanec, CSc., guarantee of the study program "Vehicles Maintenance and Repair".*