Information sheet for the course . • . I T 4al Ma41-F. •

	Experimental Methods in Material Engineering I					
University: Alexander Dubček University of Trenčín						
Faculty: Faculty of Industrial Technologies in Púchov						
Course unit co	de: <i>MT-P-11</i>		Course unit ti	tle: Experimenta	l Methods in	
			Material Engin	eering I		
Type of course unit: compulsory						
Planned types, learning activities and teaching methods:						
Lecture: 2 hours weekly/26 hours per semester of study; face to face						
Seminar: 0						
Laboratory tutorial: 2 hours weekly/26 hours per semester of study; face to face						
Number of evolution 1						
Number of creatis: 4						
Recommended semester						
the 2 nd semester in the 1 st year of the full-time form of study,						
the 4" semester in the 2" year of the part-time form of study,						
Degree of study: the 1 st degree of study (Rachelor's degree)						
Course prerequisites: none						
Assessment methods:						
Assessment methods. Student must elaborate semestral work and present it during semester. There will be one test on						
the and semester. Active presence on the laboratory tutorials						
Learning outcomes of the course unit:						
The student knows the basic principles of selected experimental methods used for testing the						
The student knows the busic principles of selected experimental methods used for testing the properties of materials and the detection of defects in materials and products						
properties of materials and the detection of defects in materials and products.						
Course contents:						
Static testing of materials periodic and aperiodic testing dynamic testing of materials dynamic						
static testing of materials, periodic and aperiodic testing, dynamic testing of materials, dynamic machanical analysis, theory of acoustic wayas, theory of elastic wayas, non-destructive material						
testing with ultrasonic fatigue and creep of materials wear testing						
iesung wun aurusonic, juugue una creep oj materials, wear testing.						
Decommended of required reading:						
Recommended of regulied reading. P. Koštial: Evzikálna základy matoriálováho inžiniorstva I. ZUSI Žilina 2000						
1. Kostiai. 1 yzikaine zakiady materialoveno inzinterstva 1, zost zitita 2000. Ptáčak I. a kol : Nauka o materiálu I. Akademická nakladatelství CEPM Brno. 2001						
P. Koštial a kol : Využitia ultrazyukových vĺn pri štúdiu povrchov a rozhraní. ŽU Žilina 1008						
I anguago: Slowak						
Demontrat						
Remarks:						
Fyaluation history: 130						
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I ooturores daa	LJ.J Ina Mauta V:	JU.22	na Dana Dalaz	$\frac{0.+}{DhD}$ L_{max} D	0.05 Audolf Valážok	
Lecturers, use. Ing. Warta Klancova, I nD., Ing. Dana Bakosova, I nD., Ing. Kadolj Valasek						
Last mountation. J1.03.2014 Supervisory des Ing Manta Vignissus DhD						
Supervisor: aoc. Ing. Marta Klanicova, PhD.						