

Information sheet for the course Mechanical Tests of Materials

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>					
Course unit code: <i>MI-P-34</i>			Course unit title: <i>Mechanical Tests of Materials</i>		
Type of course unit: <i>compulsory</i>					
Planned types, learning activities and teaching methods: <i>Lecture: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Laboratory tutorial: 2 hours weekly/26 hours per semester of study; face to face</i>					
Number of credits: <i>4</i>					
Recommended semester: <i>6th semester in the 3rd year full-time</i> <i>8th semester in the 4th year part-time</i>					
Degree of study: <i>the 1st degree of study (Bachelor's degree)</i>					
Course prerequisites: <i>none</i>					
Assessment methods: 1. <i>Pass 3 reports from measuring of mechanical properties of materials.</i> 2. <i>Complete two tests with assessment:</i>					
	<i>15-16</i>	<i>A</i>		<i>points</i>	
	<i>14-14,5</i>	<i>B</i>		<i>points</i>	
	<i>11,5-13,5</i>	<i>C</i>		<i>points</i>	
	<i>10,5-11</i>	<i>D</i>		<i>points</i>	
	<i>8-10</i>	<i>E</i>		<i>points</i>	
Learning outcomes of the course unit: <i>Students know to work with knowledge in the field of mechanical testing of different materials with respect of operation conditions.</i>					
Course contents: 1. <i>Introduction of mechanical behaviour of materials</i> 2. <i>Mechanical behaviour under tensile testing</i> 3. <i>Hardness testing</i> 4. <i>Microindentation hardness testing</i> 5. <i>Friction, wear and surface testing</i> 6. <i>Creep testing</i> 7. <i>Impact toughness testing</i> 8. <i>Mechanical testing of components</i>					
Recommended of required reading: 1. <i>SKOČOVSKÝ, P. - BOKŮVKA, O. – PALČEK, P. : Náuka o materiáli. Žilina, EDIS, 2000. 199 s. ISBN 80-7100-303-4</i> 2. <i>ASM HADNBOOK: Testing and Evaluation. ASM International. 2000. Vol. 8. pp. 2235 ISBN 0-87170-389-0</i>					
Language: <i>Slovak</i>					
Remarks:					
Evaluation history:					
A	B	C	D	E	FX
Lecturers: <i>doc. Ing. Marta Kianicová, PhD., Ing. Dana Bakošová, PhD.</i>					
Last modification: <i>31.03.2014</i>					
Supervisor: <i>doc. Ing. Marta Kianicová, PhD.</i>					

