

Information sheet for the course Materials Processing Technology II

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>					
Course unit code: <i>MT-P-23</i>			Course unit title: <i>Materials Processing Technology II</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 hour weekly/26 hours per semester of study; face to face</i>					
Number of credits: <i>5</i>					
Recommended semester: <i>4th semester in the 2nd year full-time</i> <i>6th semester in the 3rd year part-time</i>					
Degree of study: <i>the 1st degree of study (Bachelor's degree)</i>					
Course prerequisites: <i>MT-P-4 Material science I, MT-P-10 Materials Processing Technology I</i>					
Assessment methods: <i>1 project of materials processing technology will be evaluated during the course.</i>					
Learning outcomes of the course unit: <i>Student has a set of theoretical and practical knowledges of cold and hot forming, metal cutting.</i> <i>Student can determine and solve problems of technological processes, analyses possible failures in the industry.</i>					
Course contents: <ol style="list-style-type: none"> 1. <i>Base of forming, plastic deformation.</i> 2. <i>The rules of forming.</i> 3. <i>Selection of forming equipment.</i> 4. <i>Bulk forming</i> 5. <i>Sheet forming</i> 6. <i>Introduction to machining processes</i> 7. <i>Tool materials and geometry</i> 8. <i>Grinding, honing and lapping</i> 9. <i>Nontraditional machining processes</i> 					
Recommended of required reading: <ol style="list-style-type: none"> 1. http://sk.esab.net/sk/sk/education/processes-mma-smaw.cfm 2. <i>Helmi A. Youssef, Hassan El-Hofy: Machining Technology: Machine Tools and Operations. 2008 by CRC Press. ISBN 9781420043396.</i> 					
Language: <i>Slovak</i>					
Remarks:					
Evaluation history:					
A	B	C	D	E	FX
Lecturers: <i>doc. Ing. Marta Kianicová, PhD., doc. Ing. Ondrej Nemčok, PhD., Ing. Rudolf Valášek</i>					
Last modification: <i>31.03.2014</i>					
Supervisor: <i>doc. Ing. Marta Kianicová, PhD.</i>					