

## Information sheet for the course Fundamentals of engineering technology

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>					
<b>Faculty:</b> <i>Faculty of special technology</i>					
<b>Course unit code:</b> <i>ŠST/B/3-20/d</i>			<b>Course unit title:</b> <i>Fundamentals of engineering technology</i>		
<b>Type of course unit:</b> <i>optional</i>					
<b>Planned types, learning activities and teaching methods:</b> <i>1 hour and 1 lab hour per week, attendance teaching method</i>					
<b>Number of credits:</b> <i>1</i>					
<b>Recommended semester:</b> <i>4<sup>th</sup> semester in the 2<sup>nd</sup> year (full-time)</i> <i>4<sup>th</sup> semester in the 2<sup>nd</sup> year (part-time)</i>					
<b>Degree of study:</b> <i>I. (bachelor)</i>					
<b>Course prerequisites:</b> <i>none</i>					
<b>Assessment methods:</b> <i>Final score - credit: 100% participation in laboratory exercises, the attainment of goals laboratory exercises correctly Term paper, demonstrate knowledge of subject content in written and oral examination.</i>					
<b>Learning outcomes of the course unit:</b> <i>The student can analyze factual knowledge, principles and processes of production possibilities components disciplinary engineering technology. It explains the advantages of specific production methods and components not only in the manufacture or renovation of spare parts. Students will acquire the ability to correctly decide on the most effective method of production in the selected discipline engineering technology.</i>					
<b>Course contents:</b> <i>Basic methods of forging, casting, welding and machining. Concepts and terminology, in accordance with the STN, materials suitable for processing various technologies. Theoretical aspects and practical demonstrations of selected methods. Design of technological advances and the development of progressive drawings according to standards for forming, foundry, machining and welding. Compare the advantages and disadvantages of various technological disciplines in the production of specific components from different engineering materials.</i>					
<b>Recommended of required reading:</b> <i>DILLINGER, J. a kol.: Moderní strojírenství pro školu i praxi. EUROPA-SOBOTÁLES.cz, Praha 2007</i> <i>ANTALOVÁ, D., MÁSIAR. H.: Technológia zváranie – návody na cvičenia, TnU AD v Trenčine, 2009</i> <i>SLÁDEK, A. a kol.: Beztrieskové technológie I., EDIS Žilina 2000</i> <i>LETKO, I. a kol.: Priemyselné technológie I. Žilina, ZUSE, 2002.</i> <i>LETKO, I. a kol.: Priemyselné technológie II. Žilina, ZUSE, 2002.</i>					
<b>Language:</b> <i>Slovak</i>					
<b>Remarks:</b> <i>The subject is provided in the summer semester in the first year of full-time study.</i>					
<b>Evaluation history</b> <i>Total number of students being evaluated: 0</i>					
A	B	C	D	E	FX
0	0	0	0	0	0
<b>Lecturers:</b> <i>Ing. Daniela Antalová, PhD. - lecturer</i>					
<b>Last modification:</b> <i>15.4.2014</i>					
<b>Supervisor:</b> <i>prof. Ing. Alexej Chovanec, PhD., guarantee of the study program "Vehicles Maintenance and Repair".</i>					