

Information sheet for the course
Quality of mechanical engineering production and production devices

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of special technology</i>					
Course unit code: <i>ŠST/B/3-22/d</i>			Course unit title: <i>Quality of mechanical engineering production and production devices</i>		
Type of course unit: <i>compulsory</i>					
Planned types, learning activities and teaching methods: <i>Lectures – 2 hours weekly, laboratory seminars - 1 hour weekly</i>					
Number of credits: 2					
Recommended semester: <i>6th semester in the 3rd year of study /full-time / 6th semester in the 3rd year of study /part-time /</i>					
Degree of study: <i>I.</i>					
Course prerequisites: <i>none</i>					
Assessment methods: <i>100% attendance on seminars, successful submission of the seminar paper, proof of acquired knowledge from the subject with using oral and written examination.</i>					
Learning outcomes of the course unit: <i>The student will acquire knowledge and skills utilization of knowledge in relation to discipline Engineering Technology so as to know the operation, adjustment, control and management of manufacturing equipment, including possible additional equipment essential part of the production machines, their function and significance of differences in variable types of machinery. Attention is given to production tools, the materials in connection with their use.</i>					
Course contents: <i>Production machinery, equipment and attachments subject thematically divided according to different technological disciplines: machining, molding, casting and welding. It solves the continuity of their use within different disciplines and technological relations between machines and instruments. Subject account of the development, design and manufacturing production machinery so that the graduate can know substance closer machine and was able to implement its effective use. It must be able to assess the quality and class of the machine to obtain the opinion of flexibility, efficiency and modernity. Next, pay attention to accuracy and quality of machines and tools, including their energy intensity and lifetime. Finally, enters information about automation, program management (NC and CNC Control) and diagnostic errors. Subject except machinery assess the quality of production in superposition with the technological properties of materials such as weldability, castability, formability and machinability.</i>					
Recommended of required reading: <i>HÍREŠ, O., HATALA, M., HLOCH, S.: Delenie kovových materiálov okružnou pilou, vodným prúdom a plazmovým oblúkom, Pustina, Ostrava 2007 ORSZÁGH, P. - ORSZÁGH, V.: Zváranie MIG/MAG ocelí a neželezných kovov, Polygrafia SAV, Bratislava, 2000. NESLUŠAN, M.: Sústruženie kalených ocelí, EDIS Žilinská univerzita, 2009</i>					
Language: <i>Slovak, English</i>					
Remarks:					
Evaluation history <i>Total number of student being evaluated: 0</i>					
A	B	C	D	E	FX
0	0	0	0	0	0
Lecturers: <i>Assoc. prof. Ing. Harold Mäsiar, CSc.</i>					
Last modification: <i>15.4.2014</i>					
Supervisor: <i>prof. Ing. Jiří Balla, CSc., guarantee of the study program “Special Mechanical Engineering Technology”</i>					

