

## Information sheet for the course Designing production processes and systems

<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>STaM/D/3-53/d</i>			<b>Course unit title:</b> <i>Designing production processes and systems</i>		
<b>Type of course unit:</b> <i>optional</i>					
<b>Planned types, learning activities and teaching methods:</b> <i>2 hours of lectures / 0 hours exercise per week, Method of study: attendance method</i>					
<b>Number of credits:</b> <i>5</i>					
<b>Recommended semester:</b> <i>recommended in the 2<sup>nd</sup> semester in the 1<sup>st</sup> year</i>					
<b>Degree of study:</b> <i>III.</i>					
<b>Course prerequisites:</b> <i>none</i>					
<b>Assessment methods:</b> <i>During the semester will take place during the course: individual work and final evaluation: test</i>					
<b>Learning outcomes of the course unit:</b> <i>The student will acquire a deep cross knowledge and develop skills in designing the structure of production processes and production systems with potential application in science and research.</i>					
<b>Course contents:</b> <i>System design aspects of the production processes and systems. Computer aided design of manufacturing processes and systems. Characteristics of modern manufacturing systems. Analysis of realized production systems based on higher levels of automation. Design of automated manufacturing systems.</i>					
<b>Recommended of required reading:</b> <p>[1] BUDA, J. - KOVÁČ, M.: <i>Metodika projektovania výrobných procesov v strojárstve.</i> Bratislava/Praha/ALFA/SNTL, 1985.</p> <p>[2] ZELENKA, A. - PRECLÍK, V. - HANINGER, M.: <i>Projektování procesů obrábění a montáží.</i> Praha, Vydavatelství ČVUT, 1999.</p> <p>[3] ZELENKA, A. - KRÁL, M.: <i>Projektování výrobních systémů.</i> Praha, Vydavatelství ČVUT, 1995.</p> <p>[4] HAVRILA, M.: <i>Robototechnológia.</i> Prešov, FPT TU, 1999.</p> <p>[5] HAJDUK, M.: <i>Pružné výrobné bunky.</i> Košice, Vienala, 1998.</p> <p>[6] KOVÁČ, J.: <i>Projektovanie výrobných procesov a systémov.</i> ISBN 80-8073-720-7, Košice, 2006, 125 s.</p>					
<b>Language:</b> <i>Slovak</i>					
<b>Remarks:</b> <i>Object is provided only in the winter semester.</i>					
<b>Evaluation history</b> <i>Total number of students being evaluated:</i>					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> <i>Assoc. prof. Ing. Viliam Cibulka, CSc.</i>					
<b>Last modification:</b> <i>15.4.2014</i>					
<b>Supervisor:</b> <i>prof. Ing. Vojtěch Hrubý, CSc., guarantee of the study program “Technologies and Materials in Mechanical Engineering“, Assoc. prof. Ing. Ondrej Híreš, CSc., Assoc. prof. Ing. Viliam Cibulka, CSc – together-guarantors.</i>					