

Information sheet for the course Control systems II

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of special technology</i>					
Course unit code: <i>MŠT/B/1-25/d</i>			Course unit title: <i>Control systems II</i>		
Type of course unit: <i>compulsory</i>					
Planned types, learning activities and teaching methods: <i>2 hours of lectures per week, 2 hours of exercises per week, face to face method</i>					
Number of credits: <i>6</i>					
Recommended semester: <i>5th semester in the 3rd year (full-time)</i> <i>8th semester in the 4th year (part-time)</i>					
Degree of study: <i>I. (bachelor)</i>					
Course prerequisites: <i>MŠT/B/1-24/d Control systems I</i>					
Assessment methods: <i>Continuous assessment: 100% participation in exercises, meet the goals set exercises, min. 60% attendance at lectures, correctly semester work, demonstrate knowledge of subject course in written and oral examination.</i>					
Learning outcomes of the course unit: <i>The student will become familiar with the physical principles and design of control systems. The student will acquire the necessary information on the means of obtaining information, transmission and signal conditioning means for processing and information management subsystems in control systems and actuators.</i>					
Course contents: <i>Characterization and classification of the control systems. Pneumatic and hydraulic control systems. Analog controllers for feedback control. Sensors - temperature, fluid flow, force, torque, pressure, level, position. Actuators. Electric drives. Control systems and industrial fieldbuses. Standards in control technology. Typical applications of the control technology.</i>					
Recommended of required reading: <i>ZEZULKA, F.: Prostředky průmyslové automatizace. Vyd. VUTIUM Brno 2004, 176 s. ISBN 80-214-2610-1</i> <i>TUMA, J. a kol.: Základy automatizace. Vyd. VŠB-TUO Ostrava 2007, 283 s. ISBN 978-80-248-1523-7</i> <i>FRADEN, J.: Handbook of modern sensors. Vyd. SPRINGER New York 2004, 589 p. ISBN 0-387-00750-4</i>					
Language: <i>Slovak, English</i>					
Remarks:					
Evaluation: <i>Total number of students being evaluated 29 divided by notes</i>					
A	B	C	D	E	FX
3,2	0	6,4	12,9	71,1	6,4
Lecturers: <i>Assoc.prof. Ing. Lubomír Uherík, CSc.</i> <i>Ing. Milan Jus, PhD.</i>					
Last modification: <i>15.4.2014</i>					
Supervisor: <i>Assoc. prof. Ing. Peter Lipták, CSc., guarantee of the study program „Mechanisms in Special Technology“</i>					