

Information sheet for the course Special Analytical Methods

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>					
Course unit code: <i>MI-PV-11</i>			Course unit title: <i>Special Analytical Methods</i>		
Type of course unit: <i>optional</i>					
Planned types, learning activities and teaching methods: <i>Lecture: 0</i> <i>Seminar: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Laboratory tutorial: 0</i>					
Number of credits: <i>6</i>					
Recommended semester: <i>4th semester in the 2nd year full-time</i> <i>4th semester in the 2nd year part-time</i>					
Degree of study: <i>the 1st degree of study (Bachelor's degree)</i>					
Course prerequisites: <i>none</i>					
Assessment methods: <i>For graduation of course unit is needed to working out of semestral project and its presentation. The semestral project relate to special method of material analysis.</i>					
Learning outcomes of the course unit: <i>Student knows the possibility for utilization of modern experimental methods for analysis of various kinds of materials. Within student's grasp, student interprets obtained information about analyzed material during solving of practical tasks.</i>					
Course contents: <i>Selected separation methods – electromigration methods, chromatographic methods, ...</i> <i>Selected spectral methods – X-ray fluorescence spectrometry, Raman spectrometry, nuclear magnetic resonance, electron paramagnetic resonance, Mass spectrometry, ...</i> <i>Selected non-spectral methods</i>					
Recommended of required reading: <i>GARAJ, J., BUSTIN, D., HILADKÝ, Z.: Analytická chémia. Bratislava : ALFA, 1987.</i> <i>ČAKRT, M. a kol.: Praktikum z analytickej chémie. Bratislava : ALFA, 1989.</i> <i>CHURÁČEK, J.: Nové trendy v teórii a instrumentaci vybraných analytických metód. Praha : Academia, 1993.</i> <i>KLOUDA, P.: Moderní analytické metody. 2. dopl. vyd. Ostrava : Nakladatelství P. Klouda, 2003.</i>					
Language: <i>Slovak</i>					
Remarks:					
Evaluation history:					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
Lecturers: <i>Ing. Iveta Papučová, PhD., Ing. Jana Pagáčová, PhD.</i>					
Last modification: <i>31.03.2014</i>					
Supervisor: <i>prof. Ing. Darina Ondrušová, PhD.</i>					