

Information sheet for the course Chemistry

University: <i>Alexander Dubček University of Trenčín</i>	
Faculty: <i>Faculty of Health Care</i>	
Course unit code: <i>Chem/d</i>	Course unit title: <i>Chemistry</i>
Type of course unit: <i>compulsory</i>	
Planned types, learning activities and teaching methods: <i>Lecture: 2 hours weekly/26 hours per semester of study; full-time</i>	
Number of credits: 3	
Recommended semester: <i>1st semester in the 1st year (full-time)</i>	
Degree of study: <i>I (bachelor)</i>	
Course prerequisites: <i>none</i>	
Assessment methods: Written or oral examination (50 score points) - for obtaining the particular grades it is necessary to achieve: at least 45 score points for the grade A at least 40 score points for the grade B at least 35 score points for the grade C at least 30 score points for the grade D at least 25 score points for the grade E	
Learning outcomes of the course unit: <i>The student will acquire knowledge by studying the subject of basic concepts and theoretical principles of chemistry in the context of qualitative, quantitative and instrumental analysis. The student will acquire a solid and sufficiently broad theoretical and methodological basis for chemical and instrumental analysis.</i>	
Course contents: 1. <i>Introduction to Chemistry</i> 2. <i>Basic principles of volumetric analysis</i> 3. <i>Acid-base reactions</i> 4. <i>Complex reactions</i> 5. <i>Precipitation reactions</i> 6. <i>Redox reactions</i> 7. <i>General procedures of chemical analysis</i> 8. <i>Evaluation of analytical results</i> 9. <i>Separation methods</i> 10. <i>Introduction to chromatographic methods (HPLC, GC, TLC)</i> 11. <i>Electrochemical analysis</i> 12. <i>Optical Methods</i> 13. <i>Electromigration methods</i>	
Recommended of required reading: 1. <i>ŽURKOVÁ, L. A KOL. 1985. Všeobecná chémia. Bratislava: SPN. 1985.</i> 2. <i>GARAJ, J. - BUSTIN. D. – Hladký, Z. 1987. Analytická chémia. Bratislava: Alfa/SNTL. 1987.</i> 3. <i>HOLZBECHER, Z. – CHURÁČEK, J. A KOL. 1987. Analytická chemie. Praha: SNTL/Alfa. 1987.</i> 4. <i>ZÝKA, J. 1979. Analytická príručka 1. Praha : SNTL/Alfa. 1979.</i>	
Language: <i>Slovak</i>	
Remarks: -	

Evaluation history: <i>Number of evaluated students -</i>					
A	B	C	D	E	FX
-	-	-	-	-	-
Lectures: RNDr. Zdenka Krajčovičová, PhD.					
Last modification: 22.04.2014					
Supervisor: doc. MUDr. Mária Štefkovičová, PhD., MPH.					