

## Information sheet for the course Chemistry

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>	
<b>Faculty:</b> <i>Faculty of Health Care</i>	
<b>Course unit code:</b> Chem/e	<b>Course unit title:</b> Chemistry
<b>Type of course unit:</b> <i>compulsory</i>	
<b>Planned types, learning activities and teaching methods:</b> <i>Lecture: 2 hours weekly/26 hours per semester of study; full-time</i>	
<b>Number of credits:</b> 3	
<b>Recommended semester:</b> <i>1<sup>st</sup> semester in the 1<sup>st</sup> year (part-time)</i>	
<b>Degree of study:</b> <i>I (bachelor)</i>	
<b>Course prerequisites:</b> <i>none</i>	
<b>Assessment methods:</b> 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	
<b>Learning outcomes of the course unit:</b> 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.	
<b>Course contents:</b> 1. Introduction to Chemistry 2. Basic principles of volumetric analysis 3. Acid-base reactions 4. Complex reactions 5. Precipitation reactions 6. Redox reactions 7. General procedures of chemical analysis 8. Evaluation of analytical results 9. Separation methods 10. Introduction to chromatographic methods (HPLC, GC, TLC) 11. Electrochemical analysis 12. Optical Methods 13. Electromigration methods	
<b>Recommended of required reading:</b> 1. ŽURKOVÁ, L. A KOL. 1985. <i>Všeobecná chémia</i> . Bratislava: SPN. 1985. 2. GARAJ, J. - BUSTIN. D. – Hladký, Z. 1987. <i>Analytická chémia</i> . Bratislava: Alfa/SNTL. 1987. 3. HOLZBECHER, Z. – CHURÁČEK, J. A KOL. 1987. <i>Analytická chemie</i> . Praha: SNTL/Alfa. 1987. 4. ZÝKA, J. 1979. <i>Analytická příručka I</i> . Praha : SNTL/Alfa. 1979.	
<b>Language:</b> Slovak	
<b>Remarks:</b> -	

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