

General Information			
Course name	ÚCHV/GLP/12 Methodology of Experiment. Fundamentals	ECTS Credits	5
		Semester	summer
Aims			
Correct and theoretically based processing and evaluation of the results in the experimental practice. Evaluation of measurement uncertainties.			
Content			
<p>Introduction and basics of statistical evaluation of experimental results.</p> <p>The basic formulas used in the processing of the results of the chemical and biological experiments.</p> <p>Distribution of the results of measurements, measures of central tendency and spread.</p> <p>Assessment of the precision, of accuracy, and reliability of the results.</p> <p>Uncertainties and errors of measurements.</p> <p>Calibration in analytical chemistry.</p> <p>Evaluation of analytical methods.</p> <p>Solving of the typical examples in the frame of the practical lectures.</p>			
Assessment Methods and Criteria			
<p>On the basis of seminary works.</p> <p>On the basis of continuous assessment, written and oral examination.</p>			
<p>Grading Scale (in %): 100-91%-A, 90-81%-B, 80-71%-C, 70-61%-D, 60-51%-E, 50-0%-FX</p>			

Grading System:

The University recognises the following six degrees for the evaluation of the study results:

- a) A – excellent (excellent results) (numerical value 1)
- b) B – very good (above average results) (1.5)
- c) C – good (average results) (2)
- d) D – satisfactory (acceptable results) (2.5)
- e) E – sufficient (results meet the minimum criteria) (3)
- f) FX – failed (requires further work) (4)

Bibliography

Brereton R. G.: Chemometrics, Wiley, 2003

Harvey D.: Modern Analytical Chemistry, McGraw-Hill, 2000

