Level: bachelor	
Course title: Software for experimental data processing, O-07	
Lecturer: Dr. Sanja Rapajić, associate professor	
Status: elective	
ECTS: 5	
Requirements: none	

Learning objectives

Acquiring knowledge about mathematical models of problems which arise from chemistry. Introduction to Microsoft Office and software for data processing and statistical analysis (MatLab or *Mathematica*).

Learning outcomes

The basic knowledge about data processing software. Acquiring skills for solving problems that arise from chemistry, experimental data processing and statistical analysis by using appropriate software.

Syllabus

Theoretical instruction

Windows. Files and directories. Word processing, inserting formulas, tables, images. Graphics. *Mathematica* or MatLab. Data Visualization. Linear and nonlinear regression. Confidence intervals. Statistical tests. Solving mathematical models of practical problems (equations, differential equations, linear and nonlinear systems, integration, and differentiation).

Practical instruction

It consists of exercises that follow the theoretical lessons.

Weekly teaching load				Other:
Lectures: 2	Exercises: 2	Other forms of teaching:	Student research:	