

Level: bachelor				
Course title: Selected Mathematics contents				
Status: elective				
ECTS: 5				
Requirements: none				
Learning objectives To enable students to solve mathematical problems by using computer and to apply the solutions in appropriate chemistry contents.				
Learning outcomes The students should have developed: General abilities: basic knowledge of this field, following the literature, analysis of various solutions and the choice of most adequate solution, application in practice and other subjects. Subject-specific abilities: advance mathematical thinking, solving advanced mathematical problems necessary for mathematical modelling process on the chemical problems.				
Syllabus <i>Theoretical instruction</i> • Matrices and matrix equations with mathematical modelling in chemistry. • Graphing functions from elementary functions to complicated ones by using software GeoGebra, and mathematical modelling in chemistry. • Graphing derivative and integrals, by using the GeoGebra software, and mathematical modelling in chemistry. <i>Practical instruction</i> Problem solving.				
Weekly teaching load				Other:
Lectures: 1	Exercises: 2	Other forms of teaching:	Student research:	