

Level: Specialist academic studies of chemistry				
Course title: Kinetic Methods of Chemical Analysis				
Status: elective				
ECTS: 15				
Requirements: none				
Learning objectives The student directed to analytical chemistry research will be acquainted with the actual principles and application of kinetic methods to chemical analysis.				
Learning outcomes Students should be able to theoretically and practically determine the concentration of an analyte in various (complex) materials using kinetic methods.				
Syllabus <i>Theoretical instruction</i> Kinetic aspects of analytical application of chemical reactions. Kinetics of chemical reactions. Indicator reactions in chemical analysis (non-catalytic and catalytic reactions, homogeneous and heterogeneous reactions). Methods of measurement of indicator component concentration. Analysis of kinetic data. Analytical application of non-catalytic and catalytic reactions. Sensitivity, selectivity, and detection limit of catalytic methods of analysis. <i>Practical instruction or written essay on a subject by choice.</i>				
Weekly teaching load				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	