

Level: PhD				
Course title: Advanced Course of Analytical Voltammetry (DSH-614)				
Status: Elective				
ECTS: 15				
Requirements: None				
Learning objectives The aim of the course is to introduce students to the theory and application of analytical voltammetry and modern achievements in this field, with an emphasis on the development of sensors for various molecules.				
Learning outcomes The student should be able to solve theoretical and practical tasks of voltammetric determination of the concentration of reactants at the electrodes or sensor tracking molecules in a variety of (complex) materials.				
Syllabus <i>Theoretical instruction</i> Theory of analytical voltammetry. Instrumentation. Theory and application of modified electrodes. Analytical voltammetry in environmental protection. Analytical voltammetry in pharmacy. Analytical voltammetry of biomolecules. Amperometric biosensors. <i>Practical instruction</i> Seminars and practical work appropriate to lectures.				
Weekly teaching load				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	