

<b>Level:</b> PhD				
<b>Course title:</b> Selected Methods of Instrumental Analysis (DSH-706)				
<b>Status:</b> Elective				
<b>ECTS:</b> 15				
<b>Requirements:</b> None				
<b>Learning objectives</b> Detailed insight into chemical and physico-chemical characteristics, instrumental aspects and application of the selected methods of instrumental analysis.				
<b>Learning outcomes</b> Mastered necessary knowledge that will enable the students for proper application of instruments for physico-chemical analysis of various materials and for solving complex analytical problems.				
<b>Syllabus</b> <i>Theoretical instructions</i> Review of instrumental methods of analysis. Instrumental methods of separation and preconcentration. Thermoanalytical methods. Atomic and molecular spectroscopy. Other optical methods of analysis. Electroanalytical methods. Radioanalytical methods. Automated and coupled methods of analysis. Evaluation of analytical data.  <i>Other forms of teaching</i> Review of the literature. Project preparation.				
<b>Weekly teaching load</b>				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	