

Level: PhD				
Course title: Chemometrics (advanced course) (DSH-612)				
Status: Elective				
ECTS: 15				
Requirements: None				
Learning objectives To provide broad and balanced knowledge in chemometrics. To provide students with in-depth knowledge on how to apply mathematical and statistical methods for the collection of high-quality experimental data and for their processing.				
Learning outcomes Mastered necessary knowledge that will enable the student to provide reliable data and their proper treatment in order to obtain reliable information.				
Syllabus <i>Theoretical instructions</i> Statistics of repeated measurements. Significance tests. The quality of analytical measurements. Calibrations methods. Sampling theory. Experimental design and optimization. Signal processing. Multivariate analysis. Artificial intelligence. Expert systems. <i>Other forms of teaching</i> Project preparation.				
Weekly teaching load				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	