

Level: PhD				
Course title: Quality Assurance of Analytical Measurements (DSH-705)				
Status: Elective				
ECTS: 15				
Requirements: None				
Learning objectives To acquire necessary information of the principles of quality control and legal regulations, with particular attention to accreditation and certification processes.				
Learning outcomes Students should be able to design and perform the quality-controlled experiment, with taking into account all the necessary analytical considerations. Also, the students should be familiar with the legal aspects in quality control by application of adequate standards and other elements of legal regulations.				
Syllabus <i>Theoretical instruction</i> Quality management and control. TQM. Statistical analysis of results. Planning of experiments. Expert systems. Calibration of measuring instruments. Choice of optimal method of analysis. Estimation of quality of analytical procedure. Standardization and methods of quality control. Certification. Legal regulations. Accreditation of analytical laboratories. <i>Practical instruction</i> Project on quality control.				
Weekly teaching load				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	