

Level: bachelor				
Course title: Quality control systems				
Status: elective				
ECTS: 6				
Requirements: no				
Learning objectives				
To provide necessary theoretical and practical information of modern principles and legal foundations in the field of quality control of processes, products and services				
To develop in students the critical approach for actions in production processes and services				
To provide students with knowledge on quality control principles useful for comprehension of relevant chemical subjects in further education and practice				
Learning outcomes				
On completion of this course students should be able to:				
Define main terms in the field of quality control; think critically about the quality of products and services; demonstrate actual procedures of inspection of quality for products and services; define necessary issues for a quality of measurements; develop procedures for improving the quality of chemical experiments and statistical analysis, etc.				
Syllabus				
<i>Theoretical instruction</i>				
Selected topics in the following fields: quality, quality management (QM) and (TQM), standards and standardization, series ISO 9000 and ISO 14000; measurements, basics, etalons and calibration, reference materials. Legal regulations, international and national, accreditation and certification, accreditation of laboratories. Principles of control in production processes, sampling and errors. Statistical analysis of results. Education of auditors. Accreditation in high education.				
<i>Practical instruction</i> Tests for checking out comprehension of particular subjects in the delivered lectures				
Weekly teaching load				Other:
Lectures:	Exercises:	Other forms of teaching:	Student research:	
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