

Level: bachelor				
Course title: Metrology and standardization				
Status: elective				
ECTS: 6				
Requirements: Methods of measurement and data processing				
Learning objectives Introducing students to: - Terms of standards, reference methods and metrology. - Organization and operations in reference and accredited laboratories, - Legal metrology.				
Learning outcomes Students learn to work in the reference and accredited laboratories.				
Syllabus <i>Theoretical instruction</i> Measurement. The importance of measurement. Industrial and scientific metrology. Legal metrology. Standards. International organization for standardization. National metrology institutes. Primary laboratories, reference laboratories, accredited laboratories. Accreditation. Calibration, verification of control measures. Traceability and calibration. Legal metrological control. Legal control of measuring instruments. Sources of metrology data. <i>Practical instruction</i> The exercises follow the content of lectures.				
Weekly teaching load				Other:
Lectures: 3	Exercises: 1	Other forms of teaching: 1	Student research:	