**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

#### Theoretical instruction
- Quality management and control. TQM. Statistical analysis of results. Planning of experiments.  
- Estimation of quality of analytical procedure. Standardization and methods of quality control.  
- Certification. Legal regulations. Accreditation of analytical laboratories.

#### Practical instruction
- Project on quality control.

### Weekly teaching load

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<th>Exercises:</th>
<th>Other forms of teaching:</th>
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