COURSE TITLE: SOFTWARE QUALITY

Bachelor course
ECTS credits: 5

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Aims of the course:
- to broaden knowledge on software quality and ways how to determine it (importance of software quality with emphasize on telecommunication, economics, ...)
- to learn basic software quality terms in accordance (ISO 9126 standard and ISO 25000)
- to study typical ways of software testing and use them in everyday practice
- establish linkage between software and other standards
- determine advantages and disadvantages of software testing
- study software testing technics
- software quality in case of open source software (Linux, Android, ...)

Course syllabus:
- Basic terms and definitions of software quality
- Testing of software (commercial of the shelf and custom developed) in different fields (functional and structural testing, limits of software testing)
- Reliability of software and methods for improving it (different examples)
- Choosing test cases
- Static software testing technics and their importance in software testing
- Measurements in software
- Determining software quality of software based on the open source code (Linux, Android, ...)

Bibliography:
- Bojkovski, J: Software quality ; ppt presentations of lectures; 2013

**Teaching methods:**
Lectures, practical work on computers, seminar

**Prerequisites:**
Knowledge of Excel, usage of computers, basic mathematics and statistics

**Examination methods:**
Seminar and oral exam