## Software Testing - Short Description

Briefly, software testing is a process of executing a program with the goal of finding errors. Through testing, one inspects behavior of a program on a finite set of test cases (a set of inputs, execution preconditions, and expected outcomes developed for a particular objective). To assure the quality of the project, testing must be considered and executed on all phases of Software Development Life Cycle (SDLC). This is a critical task for all parties involved in the software project team including analysts, developers, and testers. In this course, we will introduce all types of tests in different phases of SDLC such as, unit testing, functional and integration testing, and system testing. The students having Java programming experience may practice some types of software testing in the development environment of a web application (Eclipse for Enterprise Java, Spring based web application). For the students having none programming experience, we will practice some types of software testing on a higher abstraction level of a software product. The course will be accompanied with a Compendium.