

# Software Testing

Single subject and programme course

6 credits

Programvarutestning

726A88

Valid from: 2020 Autumn semester

**Determined by**  
Course and Programme Syllabus Board  
at the Faculty of Arts and Sciences

**Date determined**  
2020-05-05

## Main field of study

Information Technology, Computer Science and Engineering, Computer Science

## Course level

Second cycle

## Advancement level

A1N

## Course offered for

- Bachelor programme in Information Systems Analysis
- Master Programme in IT and Management

## Intended learning outcomes

After the course, students shall be able to:

- Apply general software testing principles and fundamental test processes
- Describe and apply software test management techniques such as test planning, automated test frameworks and test monitoring.
- Evaluate software testing methods.

## Course content

Techniques and concepts for testing software. Topics cover software testing at unit, module and system levels, automatic and manual techniques for generating and validating test data, static and dynamic analysis. Tools and techniques for BDD.

## Teaching and working methods

Lectures, lessons and laboratory work.

## Examination

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it. If the coordinator has instead recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

## Grades

Four-grade scale, LiU, U, 3, 4, 5

## Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is carried out in such a way that both men's and women's experience and knowledge is made visible and developed.

## Department

Institutionen för datavetenskap