1 Course title and credit points
The course is titled Basic System Verification and awards 7.5 ECTS credits. One credit point (högskolepoäng) corresponds to one credit point in the European Credit Transfer System (ECTS).

2 Decision and approval
This course is established by Head of Department of Software Engineering 2014-02-17. The course syllabus was revised by Head of Department of Software Engineering and applies from 2014-02-17.

3 Objectives
The course aims to introduce system verification and testing. The course deals with test methods, strategies and test environment. It also includes a discussion about how testing groups can be organized and how the test group works with other parts of the system development group. Testing of software systems is a complex and important part in getting a working system delivered to users. Expertise in system verification and testing is and will be sought after.

4 Content
The course includes the following topics:
• Theory and practice of testing
• Terminology
• Standards
• Testing Methodology
• Testing Tools
• Test Planning
• Test group
• Communication of results
• Test Environment
• Testing Objectives

5 Aims and learning outcomes
After completion of the course the student will:
• understand what testing, testing organization, and testing competence means.
• be able to account for different test methods.
• be able to put together a test instruction from a number of known requirements
• be able to describe the testing process elements
• be able to formulate a test strategy and testing plan with justification to the choices made.
• be able to perform testing according to testing instruction
• be able to follow a test plan

6 Generic skills
Following generic skills are trained in the course:
@@ Information Literacy
@@ Problem Solving
@@ Ability to work in groups

7 Learning and teaching
The course consists of lectures, seminars and laboratory sessions. Lectures and seminars aims to introduce the topic and promote understanding of the techniques, limitations and also used terminology in the field. The laboratory work is intended to provide practical insight in the technologies addressed in this course.

8 Assessment and grading
Examination of the course

<table>
<thead>
<tr>
<th>Code</th>
<th>Module</th>
<th>Credit</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Exam</td>
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<td>G-U</td>
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<tr>
<td>Laboration 1</td>
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<tr>
<td>Laboration 2</td>
<td>2.5 ECTS</td>
<td>G-U</td>
<td></td>
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</tbody>
</table>

The course will be graded G Pass, UX Insufficient, supplementation required, U Fail.

9 Course evaluation
The course coordinator is responsible for systematically gathering feedback from the students in course evaluations and making sure that the results of these feed back into the development of
the course.

10 Prerequisites
For admission to the course Programming 15 credits or equivalent is required.

11 Field of education and subject area
The course is part of the field of education and is included in the subject area Software Engineering. The course can also be included in the subject area Computer Science.

12 Restrictions regarding degree
The course cannot form part of a degree with another course, the content of which completely or partly corresponds with the contents of this course. The course cannot be included in a degree with another course, which contents completely or partly corresponds with the contents of this course.

13 Additional information
Replaces PA1401.

14 Course literature and other teaching material
Författare: Black et al
Titel: Foundation of Software Testing: ISTQB Certification
Förlag: Cengage Learning EMEA
Utgiven: 2012
Antal sidor: 272
ISBN10: 1408044056
ISBN13: 9781408044056