Linnæus University

Course syllabus

Faculty Board of Science and Engineering

School of Computer Science, Physics and Mathematics

4IK014 Säkerhetstänkande, 7,5 högskolepoäng
4IK014 Security Thinking, 7.5 credits

Main field of study
Informatics

Subject Group
Informatics/Computer and Systems Sciences

Level of classification
Second Level

Progression
A1N

Date of Ratification
Approved 2009-09-08
Revised 2010-08-04 by School of Computer Science, Physics and Mathematics.
Revision of prerequisites and course evaluation.
The course syllabus is valid from spring semester 2011

Prerequisites
At least 60 credits in Informatics, including a Bachelor Thesis of 15 credits or equivalent.

Objectives

After completing the course, the student should have knowledge and higher awareness of security and safety in relation to development, maintenace, and usage of information systems.

Content

The course contains:

- computers and risks
- the human role in automated systems
- foundations for secure systems
- safety organization
- probabilities and estimation of risks
- security design
- secure user-interfaces

- verification of security.

Type of Instruction
Teaching methods consists of lectures, seminars, and exercises. Exercises are performed as independent or group work. Participation in some parts of the course is mandatory.

Examination
The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Assessments of student performance consist of written exams and/or oral presentations and/or performing mandatory assignments. Main form of examination is determined at course start. For students who have not been approved at the regular ex-amination a new date, close to the regular examination date, will be arranged for the review.

On request, students may have their credits translated to ECTS-marks.
Such a request must be sent to the examiner before the grading process starts.

Course Evaluation
A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

Required Reading and Additional Study Material
Required reading
Wylder J., *Strategic Information Security*, Auerbach Publications, 2003. Pages 216 (228).

Layton Sr T.P., *Information Security Awareness*, Authorhouse, 2005. Pages 134 (148).

Informatics, *Kompendium*. Pages 100.