Faculty of Health, Science and Technology
Computer Science

Syllabus

Privacy Patterns for Software Design

Course Code:	DVAD35
Course Title:	Privacy Patterns for Software Design *Designmönster för integritet i programvarudesign*
Credits:	1.5
Degree Level:	Master's level
Progressive Specialisation:	Second cycle, has only first-cycle course/s as entry requirements (A1N)

Major Field of Study:
DVA (Computer Science)

Course Approval
The syllabus was approved by the Faculty of Health, Science and Technology 2017-09-13, and is valid from the Spring semester 2018 at Karlstad University.

Prerequisites
Upper secondary level English 6 or B. Computer Science 30 ECTS cr, or three years of work experience in the IT sector, or equivalent

Learning Outcomes
Upon completion of the course, students should be able to:
- give an account of the concepts of privacy, data protection, privacy enhancing technologies, privacy by design, and privacy impact assessment,
- explain the fundamental principles of architectural tactics for privacy and privacy patterns,
- list relevant privacy patterns,
- analyse the usage/occurrence of privacy patterns in a given system context
- apply appropriate architectural tactics for privacy and privacy patterns in a given systems context and for a given set of privacy requirements.

Content
This course deals with privacy aspects during software design. It particularly focuses on architectural tactics and patterns as reusable conceptual solutions to recurring privacy problems. It also outlines how to use these concepts in agile development settings in order to engineer privacy into software.

The following components are included:
- Fundamental concepts of architectural tactics and patterns
- Privacy as quality attribute of software systems
- Introduction to privacy patterns, privacy anti-patterns, and privacy dark patterns
- Applying privacy patterns in agile development.

Reading List
See separate document.

Examination
Assessment is based on a written exam and hand-in assignments.

Grades
One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course. Engineering students are awarded one of the grades Pass with Distinction (5), Pass with Some Distinction (4), Pass (3) or Fail (U).

Quality Assurance
Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate
A course certificate will be provided upon request.

Additional information
DVAD35 cannot be included in the same degree programme as DVAD30 Privacy by Design.

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.