



Faculty of Health, Science and Technology
Computer Science

Syllabus

Software Architecture Project

Course Code:	DVAD17
Course Title:	Software Architecture Project <i>Projekt inom mjukvaruarkitektur</i>
Credits:	4.5
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 2021-09-16, and is valid from the Spring semester 2022 at Karlstad University.

Prerequisites

Upper secondary level English 6 and Computer Science 60 ECTS credits, including at least 7.5 ECTS credits in Software Engineering, or three years of professional experience in the information technology sector, or equivalent

Learning Outcomes

Upon completion of the course, students should be able to:

- analyse the functional and qualitative requirements of systems development and identify architectural solutions that guarantee their fulfillment,
- compare different software architecture alternatives in relation to the system that is to be developed,
- document architectural solutions in writing, and
- explain and critically evaluate the results of the project, orally and in writing.

Content

The course covers the development of an application and focuses on aspects of software architecture. The students use concepts of software architecture to design a system and justify their design decisions. The course includes the introduction and use of modern systems development frameworks and application platforms.

Instruction is in the form of a group project and introductory lectures and workshops.

Reading List

See separate document.

Examination

Assessment is based on written project reports and oral presentations.

If students have a decision from Karlstad University entitling them to Targeted Study Support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

Grades

One of the grades 5 (Pass with Distinction), 4 (Some Distinction), 3 (Pass), or U (Fail) is awarded in the examination of the course.

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

The course DVAD17 cannot be included in the same degree programme as the course DVAD11.

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