



Faculty of Health, Science and Technology
Computer Science

Syllabus

Current Research in Networked Systems

Course Code:	DVAE24
Course Title:	Current Research in Networked Systems <i>Aktuell forskning inom datanätverk</i>
Credits:	7.5
Degree Level:	Master's level
Progressive Specialisation:	Second cycle, has second-cycle course/s as entry requirements (A1F)

Major Field of Study:
DVA (Computer Science)

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2023-01-30, and is valid from the Autumn semester 2023 at Karlstad University.

Prerequisites

Advanced communication networks (5 ECTS credits) and Internet architectures and protocols (5 ECTS credits), plus upper secondary level English 6, or equivalent

Learning Outcomes

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

- describe the key functions and principles of selected research-related topics in networked systems;
- critically evaluate the strengths and weaknesses of different solutions in the area of networked systems;
- produce syntheses of research-related literature in the area of networked systems and present the results both orally and in writing; and
- independently investigate research-related topics in networked systems and communicate their findings both orally and in writing.

Content

The course comprises two parts: a seminar series and an independent project.

The seminar series includes literature study and discussion of a selection of articles on networked systems. Themes can vary from one course instance to the next. Each student is expected to chair a seminar and also present the topic of the seminar in a written report. The seminar series constitutes preparation for the independent project. Some of the seminars can also be chaired by the course coordinator.

The independent project offers individual students the opportunity to specialise in a topic related to the theme of the course. The independent project is presented in an oral presentation and a written report.

Reading List

See separate document.

Examination

Assessment is based on oral and written presentations in seminars and an independent project. All presentations are individual except the written report of the independent project which can be completed individually or in pairs.

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