



Faculty of Arts and Social Sciences
Information Systems

Syllabus

Prototyping: To Explore and Communicate Design Concepts

Course Code:	ISGA06
Course Title:	Prototyping: To Explore and Communicate Design Concepts <i>Prototyping: Att pröva och kommunicera designkoncept</i>
Credits:	7.5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has only upper-secondary level entry requirements (G1N)

Major Field of Study:
IKA (Information Systems)

Course Approval

The syllabus was approved by the Faculty of Arts and Social Sciences 2017-03-01, and is valid from the Autumn semester 2017 at Karlstad University.

Prerequisites

General admission requirements

Learning Outcomes

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

- give an account of the components of a computer and how they interact
- perform basic hard and software installation
- describe the relation of the software to the hardware
- describe different ways of developing software
- explain the composition of computer networks
- give an account of and apply basic principles of data security
- discuss the interaction between computers and humans
- describe the significance of an information system in an enterprise
- conduct small-scale experiments for testing proposals for user interfaces, and
- discuss, and critically assess a minor interactive design in written and oral form.

Content

The course is an introduction to the development of data systems from a user perspective, with a focus on the interaction between systems and users. The course covers how prototypes can be used in the development and communication of design proposals. Students work in groups to propose interaction designs, produce a manually interactive prototype and conduct several tests with potential users of the product/system. The design and the evaluation are presented in writing and orally with screen recordings of the user tests. The course also gives a general introduction to information systems and how these are related to the administration of an enterprise and its demand for information, as well as

the physical and logical composition and function of computer systems. The course also covers, on a basic level, types of data and the components of the computer, its peripheral equipment, memory, network, communication, and security.

Reading List

See separate document.

Examination

Assessment is based on a written exam, active participation in the different elements of the laboratory work and written and oral presentation of a group report, presented and discussed at a mandatory seminar.

Grades

One of the grades Distinction (VG), Pass (G), or Fail (U) 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.