



Faculty of Arts and Social Sciences
Information Systems

Syllabus

System Analysis and Design

Course Code:	ISGC13
Course Title:	System Analysis and Design <i>Systemanalys och design</i>
Credits:	7.5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has at least 60 credits in first-cycle course/s as entry requirements (G2F)

Major Field of Study:
IKA (Information Systems)

Course Approval

The syllabus was approved by the Faculty of Arts and Social Sciences 2022-02-16, and is valid from the Autumn semester 2022 at Karlstad University.

Prerequisites

60 ECTS credits completed in Information Systems, including the courses ISGB01 Database Design (7.5 ECTS credits) and ISGB03 Object Oriented Modelling (7.5 ECTS credits), or equivalent

Learning Outcomes

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

1. discuss how system analysis and system design are dependent on the organisational context,
2. integrate different dimensions of business processes and information architecture,
3. analyse similarities and differences between various system modelling approaches, and
4. give an account of the connection between static and dynamic aspects of graphic models.

Content

System analysis and system design cover different concepts, methodologies, models, techniques and tools for developing information systems. System analysis and design are firmly rooted in an organisational context. In addition to modeling skills, a system designer therefore needs a broad understanding of organisational and technical aspects of information systems.

The course has a focus on studies of system development principles, models and methods rather than on specific tools. The practical part of the course covers the most commonly used and known approaches in system analysis and design as well as on structured system analysis and object-oriented design.

Reading List

See separate document.

Examination

Learning outcomes 1-4 are assessed based on a written exam.

Learning outcomes 1-4 are also assessed based on a written hand-in assignment completed in groups.

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 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.