



Faculty of Economic Sciences, Communication and IT
Information Systems

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Economic Sciences, Communication and IT on 12 October 2011, and is valid from the Autumn semester of 2011 at Karlstad University. It replaces the former syllabus ADBC20.

Course Code: ISGC13

System Analysis and Design, 7.5 ECTS Credits

(Systemanalys och design, 7.5 Swedish credit points)

Degree Level: Bachelor

Progressive Specialisation: G2F (First cycle, has at least 60 credits in first-cycle course/s as entry requirements)

Language of Instruction

English.

Prerequisites

Information Systems 60 ECTS points including the courses ISGB03 Object Oriented Modelling 7.5 ECTS and ISGB01 Database Design 7.5 ECTS or equivalent.

Major Field of Study

IKA (Information Systems)

Learning Outcomes

Upon completion of the course, students should be able to

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

Content and Form of Instruction

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 centres on the most commonly used and known approaches in system analysis and design as well as on structured system analysis and object-oriented design.

Instruction is in the form of lectures, supervision of assignments and seminars. Assignments are presented in reports which are presented and discussed at seminars. Every student is also required to act as the discussant of a fellow-student's report.

Reading List

See separate document.

Examination

Assessment is based on a written exam and on a written report of an assignment. Students present and defend their report at a seminar and act as discussant of a fellow-student's report.

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 assessment is based on student views and experiences as reported in written course evaluations and/or group discussions. Students will be informed of the result of the evaluation and of the measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional Information

Students who enrolled before 1 July 2007 will complete their studies in accordance with the requirements of the earlier admission. Upon completion students may request degree and course certificates to be issued under the current ordinance if they meet its requirements.

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

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