



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 13 June 2007, and is valid from the Autumn semester of 2007 at Karlstad University.

Course Code: ISGB04

Software Development, 7.5 ECTS Credits

(Programutveckling, 7.5 Swedish credit points)

Degree Level: Bachelor

Progressive Specialisation: G1F (First cycle, has less than 60 credits in first-cycle course/s as entry requirements)

Language of Instruction

Swedish

Prerequisites

General admission requirements

Major Field of Study

IKA (Information Systems)

Learning Outcomes

The aim of the course is that students acquire knowledge of the theories and methods of object-oriented program development, and that they develop their ability to analyse and evaluate databased information systems independently and to draw up proposals for such systems.

Upon completion of the course students should be able to:

- identify object-oriented qualities in a textual requirement specification
- transform identified textual qualities into a graphic object-oriented description model
- use an object-oriented design tool to describe intended software based on a requirement specification
- describe the relation between requirement specification, design, implementation and documentation
- develop object-oriented software on the basis of graphic object-oriented design, taking principles of design and software development strategies into account.

Content and Form of Instruction

The course deals with object-oriented analysis and design and basic concepts such as object, class, encapsulation, method, attribute, inheritance, polymorphism and constructor.

Instruction is in the form of lectures, supervised laboratory work and seminars.

Reading List

See separate document.

Examination

Examination is in the form of written exams and reports of application assignments. All laboratory work must also be completed before a course grade is awarded.

Examination based on this syllabus may be completed up to one year after the syllabus is replaced. Two examination opportunities are provided during the first academic year in which the course is not offered, and one in the second year.

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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