School of Economics and Management

SYSK02, Informatics: Applied Project and Bachelor Degree Project, 30 credits

Informatik: Projektarbete och examensarbete kandidatnivå, 30 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus was approved by The Board of the Department of Informatics on 2013-09-20 and was last revised on 2016-06-03. The revised syllabus applies from 2017-01-16, spring semester 2017.

General Information

The course makes up the sixth semester of the BSc programme in Design of Information Systems.

Language of instruction: Swedish
Required reading in English may be included.

Main field of studies	*Depth of study relative to the degree requirements*
Information Systems	G2E, First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree project for BA/BSc

Learning outcomes

On completion of the course, the student shall have obtained specialised knowledge of and skills in the practical application of IS/ICT design for real-world clients. Furthermore, the student shall have acquired specialised knowledge of theories and methods within informatics and skills in planning, executing, reporting and defending a research project.

Knowledge and understanding

For a pass on the course, students shall demonstrate knowledge and understanding of

- the theoretical field within informatics to which the selected research problem belongs
- different research perspectives, methods and technologies and their importance within informatics
- key perspectives, theories, models and frameworks for the execution of a research project
- relevant IS/ICT design processes, models, methods and tools for drawing up IS/ICT design proposals
- how their own IS/ICT design proposals can meet the requirements, wishes and needs of an organisation, business activity and individual.

Competence and skills

For a pass on the course, students shall demonstrate competence and skills individually or in groups to

- identify and formulate a researchable research problem
- plan, execute, report and defend a research study
- assess the need of empirical material to complete a research study
- pursue theoretically and methodologically supported arguments
- apply and develop previously acquired subject and method knowledge and skills to execute a research project
- communicate and argue for the theoretical starting points, research methods, empirical material and findings of the research study in speech and writing
- identify problems and areas in which IS/ICT can offer improvements within certain business activities
- justify the choice and application of relevant theories, design methods and tools for designing IS/ICT solution proposals for certain business activities
- organise the project group and prepare realistic project plans for real-world development projects
- apply and develop previously acquired knowledge and skills in drawing up their own IS/ICT design proposal
- plan, execute and report the implementation and drawing up of an IS/ICT design proposal for a real-world client
- establish support for and communicate IS/ICT solution proposals in contacts with a real-world client
- communicate and argue for the points of departure, design methods and results of their own IS/ICT design proposal, in speech and writing and both internally and externally.

Judgement and approach

For a pass on the course, students shall demonstrate the ability to

- critically review scientific theories and methods in relation to a selected research problem
- critically review research studies and reports
- justify the choice and application of scientific theories and research methods in relation to a research problem
- reflect on ethical issues of their own research project
- analyse and assess their own IS/ICT design proposals in relation to a real-world client
- analyse and design measures to improve project work and group processes
- critically review the usefulness and relevance of research studies and other inquiries for drawing up their own IS/ICT design proposals
- critically review scientific theories and research methods in relation to a selected research problem

- independently document, reflect on and evaluate their own learning process and goal attainment.

Course content

The course deals with

- basic research methods in informatics
- planning and execution of a research study
- basic methods for IS/ICT design proposals
- planning and execution of a real project
- reporting and presenting the execution and results of an IS/ICT proposal and individual research study.

Course design

The teaching consists of lectures, lessons and supervision.

The course includes compulsory components, which are stated in the schedule.

The project work is carried out in teams of three to five students. Students are entitled to supervision of the project work during the semester of the start of the project and the following semester (i.e. two semesters). Subsequently, a new application for project work must be submitted.

Thesis writing is carried out in teams of two students. Students are entitled to supervision of the thesis writing during the semester of the start of the thesis and the following semester (i.e. two semesters). Subsequently, a new application for thesis writing must be submitted. The thesis can take the form of theoretical-empirical study, theoretical study or a design study.

Assessment

The assessment is based on a project report and a Bachelor's thesis.

Assessed components including documentation and written reflections are compiled in the student's learning portfolio. Furthermore, the thesis should be published in LUP student papers.

Re-examination of the project report is offered in close conjunction with the first examination. In addition to the final seminar for the Bachelor's thesis, further final seminars are offered at the end of the following semester.

The grade of the thesis is awarded by a thesis examiner, who is not identical with the supervisor.

Academic misconduct such as cheating, plagiarism, fabrication and falsification is considered a serious offence in higher education (see Chapter 8 of the Higher Education Ordinance). The disciplinary measures that may be taken as a result of such offences are caution or suspension for a limited period of time from the university (and all the faculties of the university).

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, E, D, C, B, A.

Grade (Definition) Points or percentage out of maximum points. Characteristic.

A (Excellent) 85-100. A distinguished result that is excellent with regard to theoretical depth, practical relevance, analytical ability and independent thought.

B (Very good) 75-84. A very good result with regard to theoretical depth, practical relevance, analytical ability and independent thought.

C (Good) 65-74. The result is of a good standard with regard to theoretical depth, practical relevance, analytical ability and independent thought and lives up to expectations.

D (Satisfactory) 55-64. The result is of a satisfactory standard with regard to theoretical depth, practical relevance, analytical ability and independent thought.

E (Sufficient) 50-54. The result satisfies the minimum requirements with regard to theoretical depth, practical relevance, analytical ability and independent thought, but not more.

F (Fail) 0-49. The result does not meet the minimum requirements with regard to theoretical depth, practical relevance, analytical ability and independent thought.

To pass the course, the students must have been awarded the grade of E or higher.

Grading rules and definitions

Grades are awarded according to a graded scale from A (highest) to F (lowest), with E as the minimum passing grade.

When the exam/assignment is not graded, the grades G (Pass) or F (Fail) will be applied.

Course grades

When calculating course grades, the graded components will be weighted according to the following formula:

The number of credits for the exam is multiplied with the exam score. The total value is then divided by the total number of credits for the exams/assignments included. The resulting average is then rounded off to the nearest whole number. The number indicates the relevant course grade in accordance with the grading definitions above.

For exams/assignments which are graded and scored, the grades A to F will be used in accordance with the grading definitions above. The exam score will be used directly in the calculation.

For exams/assignments which are graded but not scored, the grades A to F will be used and converted as follows: A = 92, B = 80, C = 70, D = 60, E = 52.

Exams/assignments which are not graded but awarded with G (Pass) or F (Fail) will not be included in the calculation of the course grade.

Entry requirements

To be admitted to the course, the student must have passed the general requirements and the courses: SYSA11, SYSA12, SYSB13, SYSA14 and an additional 30 credits in informatics/information systems at the Bachelor's level or the equivalent.

Further information

SYSK02 is a programme-specific course and only students on the BSc in Design of Information Systems are admitted.

SYSK02 may not be included in a degree together with SYSK01 or the equivalent.

It is compulsory to attend the introduction meeting, where a roll call will be taken. Absence without notification means that the admitted student will lose his/her seat on the course.

For transitional provisions with regard to previous courses, please contact the study adviser for an individual assessment.

If the course is discontinued, there may be limited opportunities for re-examination. Please contact the study adviser for information.

Amendments
2015-12-04: Added that the course includes compulsory components and that attendance on the introduction meeting is compulsory.
2016-06-03: New grading rules from Spring term 2017.

Subcourses in SYSK02, Informatics: Applied Project and Bachelor Degree Project

Applies from V12

1101 Applied Project Report, 14,0 hp
Grading scale: Fail, Pass
Group of 3-5 students.

1102 Bachelor Degree Project Essay and Critique of other essay, 15,0 hp
Grading scale: Fail, E, D, C, B, A
Group of two students.

1103 Learning Portfolio, 1,0 hp
Grading scale: Fail, Pass
Individual assignment.