IV2401 Project Management for IT Systems 15.0 credits

Projektledning vid utveckling av IT-system

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for IV2401 valid from Autumn 2008

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Information and Communication Technology, Information Technology

Specific prerequisites

Admission requirements for the Master Program "Engineering and Management of Information Systems" (EMIS):
Bachelor's degree from an institution of higher education in science, engineering or other discipline related to the major subject: Information Technology. The academic qualification must be equivalent to 180 ECTS credits. English proficiency equivalent to TOEFL 550 (213 for the computer-based test) or IELTS 5.5. Previous studies must have included a minimum of 60 Swedish credits (90 ECTS credits, 1,5 years in-depth studies) of university courses in any combination from the following subjects: Computer Programming, Data Bases or File Structures, Network architecture, Computer System Modelling, Operative Systems, Algorithms, Data Communication or/and Software Engineering.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

A On completion of the course the students should be able to:

• Understand Project management from a theoretical, methodological and practical perspective, including Methodologies and Mechanics

• Understand the new demands, specific needs and practical problems when introducing ICT in the areas of health, government and education (e-health, e-learning and e-government)

• Understand and operationalize a holistic and customer oriented approach to project management

• Understand the peculiarities of academic projects in computing and information sciences and be able to work with different types of them.

• Understand and discuss the differences and similarities between project management in developed and developing countries

Course contents

• Project Management:

• A holistic, business- and customer oriented approach

• Methodology and mechanics:

• Project definition

• Project Design

• Project Delivery and Feedback

• Creating a project proposal (student project v/s industrial project)

• Handling communication and the breakdown structure:

• Agile project management or dealing with change and turbulent

• environments

• The project manager and the project team

• Projects management for development

• Practical Project work (group work) in one of the following areas:

• E-learning

• E-government

• E-Health

Disposition

The course is a 10 week course composed of:
Lectures, seminars, projectwork/fieldwork, tutorials, case studies and discussions.

Course literature

Determined at the start of the course.

Examination

- SEM1 - Seminars, 1.5 credits, grading scale: P, F
- SEM2 - Seminars, 1.5 credits, grading scale: P, F
- PRO1 - Project, 6.0 credits, grading scale: P, F
- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- SEM3 - Seminars, 1.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Other requirements for final grade

Since the course is composed of three different parts, it is also examinated in three different ways:
1 A theoretical and academic discussion on Project Management and its mechanics. This part is evaluated through a written examination (3p/4,5hp). This part measures the level of understanding and concrete knowledge on the subject.
2 A practical project work, where the students working in groups should be able to propose and implement a 4 weeks project. This part is worth 4p/6hp. A final project report and the final presentation in a semimar are the basis for evaluation. This part measures the ability of the students to apply the theoretical knowledge in a concrete project.
3 Finally, this course gives special attention to the areas of e-learning, e-government and e-health. Thus, everyone of this subjects is allocated one week, where theories, case studies and seminars alternate. Everyone of the subjects is worth 1p/1,5hp. This works will be evaluated and graded by the end of each week. They represent an evaluation of the capacity to work in groups and the level of understanding of the specific subject.
In Summary:
Final written examination: 3p/4,5hp
Practical project work: 4p/6hp
Special subjects: 3p/4,5hp (1p/1,5 point per each subject)

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.