IT-projects 7.5 credits D0021N

IT-projekt

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2021-06-16

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IT-projects 7.5 credits D0021N

IT-projekt

First cycle, D0021N

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G VG *	Systemvetenskap	Informatics/Computer and Systems Sciences

Main field of study

Information Systems Sciences

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and The course assumes basic knowledge of Computer Science or Systems Science.

Selection

The selection is based on 1-165 credits.

Course Aim

After passing the course, the student should be able to:

Knowledge and understanding

- describe and explain what key concepts in an IT project, such as customer needs and customer requirements, mean for an information system.
- describe and explain how groups work at individual and group level.
- describe and explain key concepts and connections in knowledge sharing and how this can be used in project work.

Skills and Abilities

- plan, lead and implement an IT project using agile project methodology.

Evaluation ability and approach

- analyze an IT project from a gender equality perspective.
- reflect on and analyze their own approach in relation to agile project methodology.

General skills trained in this course (according to the Higher Education Ordinance):

- Demonstrate knowledge and understanding within the main area of the education: Applicable methods in-depth study in some part of the area.
- Demonstrate the ability to search, collect, evaluate and critically interpret relevant information in a problem and to critically discuss phenomena, issues and situations
- Demonstrate the ability to independently identify, formulate and solve problems and to perform tasks within given time frames
- Demonstrate the ability to orally and in writing present and discuss information, problems and solutions in dialogue with different groups

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Contents

The largest part of the course consists of the student planning, leading and implementing an IT project. Students use a suitable, optional IT tool for planning and implementation and communication with clients / customers. The project can involve the students starting from a problem statement and designing a requirements specification or prototype for the system. Another important element in the course is co-learning, the student learns to collaborate and how a group develops during a project and the role of co-learning in a project work.

Realization

Each course occasion´s language and form is stated and appear on the course page on Luleå University of Technology's website.

By working in projects during most of the course, group work / collaboration, communication is trained, partly within the group but also with a customer / problem owner. The project work is based on a problem posed by an external problem owner. The problem is, more or less open, and the group must therefore delimit itself and understand the customer's needs in order to be able to propose a solution. Depending on which project is available, the result can be a requirements specification or a model / prototype of an information system. The result must be presented orally and in writing to the customer. The student must also reflect on his and the group's development, and process, throughout the course by writing a logbook / blog that is summarized at the end of the course, and apply tools for analysis of gender equality. The teaching is largely web-based but also consists of mandatory meetings and project meetings with supervisors. During the course, distance students communicate with classmates and teachers via e-mail, video conferencing and an online learning platform.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.
All included examination parts must be completed for the final grade on the course:

- Project work 5 credits, U G VG
Design a requirements specification, model or prototype with a content and a design that suits the customer (the problem owner) and the information system that solves the customer's problems as well as an oral presentation of the work. Regular follow-up of project method and a written report containing a description of the project work and the method.

- Individual assignment 2.5 credits, U G VG
Summary of the logbook / blog that shows the group's and the individual's development during the project work as well as a reflection on the own process in relation to co - learning, knowledge sharing and agile project methodology. Literature studies.

Mandatory attendance is required at seminars.

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

Technical Requirements: Access to a computer with microphone, web cam and permission to install software. Internet connection (minimum 0,5Mb/sec).

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Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Group project	U G VG *	5	Mandatory	A07	
0002	Assignment reports	U G VG *	2.5	Mandatory	A07	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Last revised

by Jonny Johansson, HUL SRT 2021-06-16

Syllabus established

by Institutionen för industriell ekonomi och samhällsvetenskap 2007-02-28