DALARNA UNIVERSITY

Course Syllabus

Thesis for Bachelor Degree in Informatics 15 Credits*, First Cycle

Learning Outcomes

After completing the course, students will be able to

Knowledge and Understanding

- explain their choice of research approach in relation to research questions and knowledge contributions in connection with scientific research in general and their own thesis specifically (1)
- explain the choice of scientific methods for data collection and data analysis in connection with scientific research in general and their own thesis specifically (2)

Skills and Abilities

- identify, formulate and argue for a problem for an academic paper within the subject area (3)
- plan and carry out literature studies linked to the presented problem (4)
- plan and carry out a scientifically based study by choosing an implementation strategy, and data collection and data analysis method with a basis in a problem and research ethics principles (5)
- present their results at an oral presentation and in a written report in accordance with accepted scientific principles (6)
- demonstrate the ability to perform tasks within a given time frame (7)

Evaluation Ability and Approach

- critically examine and evaluate the work they themselves carried out, and be able to provide examples of methodological alternatives that could have improved the way it was carried out (8)
- evaluate and give constructive criticism on a report (9)

Course Content

All higher education has a scientific basis, and the purpose of the degree project is that students will be taught how to plan, implement and present their work, which is versatile,

objective and well-substantiated in content. This means, among other things, that all interpretations and conclusions must be substantiated through the use of clear references to literature and to their own results.

Students begin their work by formulating the goals for the project and by developing a project plan. Through, for example, a study of the literature, they follow this by describing the background, collecting data (from, for example, experiments or interviews) and, at the end stage, carrying out a detailed analysis and evaluation of the results.

Students are taught to think in models, to make conscious and explicit simplifications, and to collect and analyse relevant information. Supervision during the degree project is provided jointly by the company (where applicable) and by lecturers at the University in regular meetings. During the supervision sessions, students are given the opportunity both to discuss different ways of defining and describing problems, and to choose theoretical starting points, strategies, and data collection and data analysis methods.

Students document the degree project in the form of a report that is written in accordance with good scientific principles. To conclude, students must present their own degree project and act as opponent for another degree project.

Assessment
Course assessment is made up of the following:

- Presentation of project idea and project description (0.5 credits)
- Midway report, including written opposition report on another degree project (0.5 credits)
- Written report, oral presentation, opposition to another degree project, including written opposition report, as well as participation in other presentations (14 credits)

Forms of Study
Lectures, seminars, tutorials and presentations

Grades
The Swedish grades U–VG.

For a final course grade of VG, students must meet the criteria for VG and follow these steps within the set times:

- Project idea and project description U – G
- Midway report (oral and written presentation) U – G
- Written report, oral presentation, active opposition to another degree project and

participation in other regular presentations U – VG

Prerequisites
150 credits whereof at least 60 credits in the main field of subject Information Systems, including the course Research Methodology 7.5 credits

Other Information
The degree project is an independent piece of academic work; however, it can be completed in pairs (i.e., two students) and preferably in collaboration with a company, the public sector or another organisation that presents students with an assignment.
If two students work together on the degree project, then the report must state what each student did so that an individual grade can be awarded to each student.
For each course, the study guide states the final date for submission. For late submissions, students can only receive grade G. Those who are registered in the course have the right to receive instruction and supervision during the time specified for the course in which the applicant is registered.

The syllabus replaces IK2017 Degree Project for the Bachelor's Degree in Informatics

Subject:
Information Systems

Group of Subjects:
Informatics/Computer and Systems Sciences

Disciplinary Domain:
Technology, 100%

This course can be included in the following main field(s) of study:
1. Information Systems

Progression Indicator within (each) main field of study:
1. G2E

Approved:
Approved 11 October 2018
Valid from 1 January 2019