



Master's programme in Informatics with specialisation in Co-Design of Business and IT

Masterutbildning i informatik med inriktning på co-design av verksamhet och IT

120 credits

Ladok Code: AIMAS

Version: 3.1

Level: Second cycle

Approved by: The Teaching Committee 2012-03-14

Valid from: Autumn 2011

Valid for:

General Objectives

Second level education shall essentially build on the knowledge that students acquire in first level education or corresponding knowledge. Second level education shall involve a deepening of knowledge, skills and abilities relative to first level education and, in addition to what applies to first level education, shall

- further develop the students' ability to independently integrate and use knowledge,
- develop the students' ability to deal with complex phenomena, issues and situations, and
- develop the students' potential for professional activities that demand considerable independence or for research and development work.

(The Higher Education Act, Chapter 1, Section 9)

Objectives

Co-design focuses on the process in which different perspectives and skills are woven together in new products, organizations and businesses. It means recognition of the need to involve different groups of actors in the design process and that business and IT systems need to be co-created.

The overall objective of the programme is that the students should acquire the knowledge of qualified work with coordinated/collaborative business and systems development in accordance with the theories and methods of co-design.

The programme is aimed at students with a bachelor's degree and is related to the research profile of the School of Business Administration and Informatics as well as to advanced topics in the field of co-design. The education is aimed at deepening knowledge of co-design with the possibility of individual specialization, comparable to corresponding international programmes.

Knowledge and understanding

After completion of the programme, the students can

- analyze a business process from an IT perspective,
- identify and analyze problems relating to misalignment between business and IT,
- explain the current research in various areas of the subject,
- discuss theories and methods applicable to the area, as a basis for post-graduate studies in the field.

Skills and abilities

After completion of the programme, the students are able to

- put together a team of co-designers to deal with change projects, with particular reference to the misalignment problem,
- co-design a solution to a problem which includes changes in both organization and IT change in such a way that the discrepancy problem is minimized,
- use the research results from ongoing research in various areas on the subject on the basis of the needs of different target groups,

- work on the basis of various theoretical foundations in organizations that require advanced skills in the field of co-design of business and IT development,
- apply abstract knowledge from the field to specific problems,
- perform independent investigations, evaluations and applied research in collaboration with other stakeholders,
- develop strategies for co-design in collaboration with other specialists and practitioners from different professions and to be able to implement these strategies
- ensure that processes can be adapted flexibly to changes in the environment (process intelligence)
- enable process innovation, i.e. the creation and realization of new business opportunities

Values and attitudes

After completion of the programme, the students can

- create an awareness among the organization's stakeholders on the problem of discrepancies between the business and its IT systems, and the participants' individual roles.

Content

The contents of the master's programme builds upon the profiles of the School of Business and Informatics programmes at basic level, and gives possibilities for some coordination with other master's programmes within the discipline. The programme is organised in compulsory courses, electibles and an individual master's thesis. Courses at the basic level can be replaced by other courses depending on previous studies.

Semester 1 gives a general overview of the area of Co-Design, its scope and objectives

- Research Methods in Social Science (Advanced, 7.5 Credits)
- Information Systems and Business Processes (Advanced, 7.5 Credits)
- Business Intelligence (Advanced, 7.5 Credits)
- Electible courses (7,5 Credits)

Semester 2 focus on knowledge from the practice of business and development of information systems within different contexts.

- e-Business (Advanced, 7.5 Credits)
- Trends in Informatics (Advanced, 7.5 Credits)
- System Development Philosophies (Advanced, 7.5 Credits)
- Electible courses (15 Credits)

Semester 3 focus on deepening the knowledge on theories and methods for research in Informatics

- Trends in Informatics (Advanced, 7.5 Credits)
- Research Methods in Social Science (Advanced, 7.5 Credits)
- Electible courses (22,5 Credits)

Semester 4 concludes the programme with an extensive individual work in the form of a master's thesis (Advanced level, 30 Credits).

Among the electible courses in semesters 1-3, at least 15 Credits must be on advanced level.

Among the electibles the students can choose from e.g.:

- Business Design (Advanced, 7.5 Credits)
- Computer Design (Basic level 2, 7.5 Credits)
- Interaction Design (Basic level 2, 7.5 Credits)
- Interaction Design 2 (Advanced, 7.5 Credits)
- Object Oriented Analysis and Design (Basic level 2, 7.5 Credits)
- Game Design (Basic level 2, 7.5 Credits)
- Game Programming (Basic level 2, 7.5 Credits)
- System Analysis and Design (Basic level 2, 7.5 Credits)
- Unified Modeling Language (Basic, 7.5 Credits)
- Business Intelligence (Advanced, 7.5 Credits)

Admission Requirements

- Bachelor's degree in Informatics, 180 credits.
- Verified knowledge of English corresponding to the course English B in the Swedish Upper Secondary School or a Bachelor's degree from a university in Sweden, Denmark, Norway, Finland or Iceland.

For further information about English language proficiency, please view: www.hb.se/wps/portal/engtest

Degree

Master of Science (Two Years) in Informatics with specialization in Co-Design of Business and IT.

The Swedish translation of the degree is filosofie masterexamen med huvudområde informatik - inriktning co-design av verksamhet och IT.

The exam certificate will be issued at request on a special form.

Degree certificates are issued upon application on a special form. More information is available at www.hb.se.

Student Influence and Evaluation

The education will be assessed continuously. On one hand, each course is evaluated by students and teachers; on the other hand the programme in its entirety is evaluated and monitored by a special Programme Board, composed of teachers, representatives from the students and representatives from industry. The results of these evaluations will be communicated to the students.

Miscellaneous

Dnr.251-11-510

For students admitted Fall 2011.

The education is given on campus and in full-time. The education is in English.

Graduation from this programme gives eligibility to studies at research level.

Courses from this programme can be included in doctoral studies, after proper trial.

Internationalization

The content of the programme is based on the internationally recognised Scandinavian school of management and systems development, but also international knowledge related to co-design, and on an active dialogue and cooperation with international and national actors. Within the programme students from different countries are offered the possibility to cooperate and participate in the development of the knowledge of co-design.

Gender equality, diversity and sustainable development .

The programme deals with issues on the basis of a variety of social sciences, humanities, cognitive and information technology perspectives: in the programme the student acquire tools to identify and discuss problems concerning questions about democracy, equality, diversity and sustainable development.

The language of instruction is English.