Theories on Systems Development Methods, 7.5 credits

Teorier om systemutvecklingsmetoder, 7,5 hp

Course Code/Codes 20IK028
Subject Area Informatics
School/equivalent School of Business
Valid from 2014-06-01
Approved 2014-05-08
Revised
Approved by Head of School
Translation to English, date and signature 2015-10-19 Jgy

1 Course content

The course includes:

1. Comparison of systems development methods theories. In this module the research student will compare the structure of various systems development methods theories;
2. Explanation of different principles for the adaptation of systems development methods. In this module the research student will compare various principles for the adaptation of the systems development methods;
3. Analysation of the use of systems development methods in practice. In this module the research student will analyse a practical situation where systems development methods are applied.

2 Outcomes

2.1 The course in relation to the doctoral programme

The course shall primarily refer to the following intended learning outcomes for third-cycle courses and study programmes as described in the Higher Education Ordinance, i.e. the doctoral student shall demonstrate:

Knowledge and understanding
- broad knowledge and systematic understanding of the research field (part of outcome 1)

Competence and skills
- the capacity for scholarly analysis and synthesis (part of outcome 3)
- the capacity to review and assess new and complex phenomena, issues and situations autonomously and critically (part of outcome 3)
- the ability to identify the need for further knowledge (outcome 7)
The intended learning outcomes are listed in the same order as in the general syllabus for the programme.

## 2.2 Intended course learning outcomes

To obtain a passing grade, the doctoral student shall demonstrate:

1. Ability to describe and compare the basis for systems development methods theories.
2. Ability to analyse system development methods with the help of systems development methods theories.
3. Ability to select theories for analysis of the basis for systems development methods.
4. Ability to describe and compare the structure of various systems development methods theories.
5. Ability to analyse how systems development methods are used in practice.
6. Ability to identify and distinguish the rationality of a systems development method.
7. Ability to interpret and summarise possibilities and limitations of systems development methods.

## 3 Reading list and other teaching material

The following course readings and teaching material will be used on the course:


4 Teaching formats

Teaching on the course takes the following format:
- Lectures
- Workshops

5 Examination

The course is assessed through an examination consisting of the components listed below. The individual components are not graded separately but together they provide the basis for assessment and grading.

Component 1: Written PM – Refers to outcome 1
Component 2: Written PM – Refers to outcome 4
Component 3: Written PM and oral opposition of another doctoral student’s PM – Refers to outcomes 2, 3, 5, 6 & 7

For examinations consisting of several examination components, the following applies: If during the course it is concluded that a doctoral student is unable to complete a certain examination component, the examiner may set a substitute assignment provided that circumstances do not reasonably allow for the course component to be completed at a later date during the run of the course.

6 Grades

Examinations on third-cycle courses and study programmes are to be assessed according to a two-grade scale with either of the grades ‘fail’ or ‘pass’ (local regulations).

The grade shall be determined by a teacher specifically nominated by the higher education institution (the examiner) (Higher Education Ordinance).

To obtain a passing grade on examinations included in the course, the doctoral student is required to demonstrate that he/she attains the intended course learning outcomes as described in section 2.2. Alternatively, if the course consists of multiple examinations generating credit, the doctoral student is required to demonstrate that he/she attains the outcomes that the examination in question refers to in accordance with section 5.

A student who has failed an examination is entitled to a retake.

If an examination consists of several examination components, and a student fails an examination component, the examiner may, as an alternative to a retake, set a make-up assignment with regard to the examination component in question.

A doctoral student who has failed an examination twice for a specific course or course element is entitled, upon his/her request, to have another examiner appointed to determine the grade.

7 Admission to the course

7.1 Admission requirements

To gain access to the course and complete the examinations included in the course, the applicant must be admitted to a doctoral programme at Örebro University.
7.2 Selection

Selection between applicants who have been admitted to doctoral programmes at Örebro University and who otherwise meet the admission requirements as listed above is made according to the following order of precedence:

1) Applicants from Informatics
2) Applicants from the School of Business
3) Applicants admitted to research study programmes at Örebro University

If no other selection criteria are specified in this section, priority shall be given to applicants with a lower number of course credits left before the award of their degree over applicants with a higher number of remaining course credits. Should two or more students have equal number of credits, selection will be done through the drawing of lots. This also applies within any selection groups listed unless otherwise stated.

7.3 Other applicants than doctoral students admitted at Örebro University

Other applicants than doctoral students admitted at Örebro University may be given access to the course on the grounds of provisions for and/or agreements regarding contracted courses, joint degrees, national graduate schools or cooperation in other respects with other universities.

Any decisions on what such other applicants may be given access to the course are made separately and on the basis of the provisions and/or agreements that occasion the student to apply for the course.

8 Transfer of credits for courses, study programmes and other experience

Provisions on the transfer of credits can be found in the Higher Education Ordinance and on the university’s webpage.

9 Other information

The language of tuition may be English or Swedish, depending on the participants' language skills. The literature is mainly in English.

Research students who have been admitted to a course have the right to receive tuition and/or supervision for the duration of the time period specified for the particular course to which they were accepted. After that, the right to receive tuition and/or supervision expires.

Transitional provisions