UNIVERSITY OF BORÅS

Trends in Informatics
Trender inom informatik
7.5 credits
7.5 högskolepoäng

Ladok Code: 22TR1D
Version: 2.0
Established by: The Teaching Committee 2014-02-04
Valid from: Spring 2014

Education Cycle: Second cycle
Main Field of Study (Progressive Specialisation): Informatics (A1N)
Disciplinary Domain: Natural sciences
Prerequisites: Bachelor's degree in Informatics or equivalent.
Subject Area: Informatics/Computer and Systems Sciences
Grading Scale: ECTS-credits

Content

The course presents various aspects of current research and practice related to informatics substance, and by document studies of scientific publications in the field, and observation and through experience and ideas from researchers and practitioners in the field. The course covers:

- Informatics research environment and nature
- Research areas for Informatics
- Sustainability
- Current discussions within the discourses of the informatics field
- Practitioners visions of trends in informatics

Learning Outcomes

The course's overall objective is that students will gain insight into the various developments in informatics.

After completing the course the student will be able to

Knowledge and understanding

1. explain the various key areas of research in informatics

2. discuss informatics research environment and nature

3. participate in discussions concerning informatics research to practice and sustainability

Skills and abilities

4. independent comparative academic study, related to the relationship between research, practice and sustainability

5. report their own small study in a qualified research

6. critically examine and evaluate scientific articles on the subject Informatics

Judgment and approach

7. demonstrate a critical attitude towards both their own as other research results, and the impact of research on the Informatics practice areas and sustainability.

8. reflect and problematize how society's work on sustainable development and sustainability influence both research and practice in the IT field from various perspectives (social, economic, environmental), and

9. reflect and problematize how research and practice in the IT sector can contribute to sustainable development and sustainability from different perspectives (social, economic, environmental)

Forms of Teaching

The teaching consists of seminars and lectures on research and professional issues and sustainability. The teaching includes a project in which students independently seek empirical material to be analyzed and set against the research presented during the course, including related material on sustainability. The result of the project is presented in the form of a qualified research report on the last seminar, which is in the form of a scientific conference

The lectures are in English, and the literature is in English.

Forms of Examination

The course is examined by:

- a written report of the project in the form of a scientific paper (learning outcomes 1-9)
- assessment of scientific articles - so-called peer-review (learning outcomes 6-7)
- presentation and discussion of their article on a workshop (learning outcomes 5 and 7)

    The article is graded by the common criterias for peer reviews of articles for scientific conferences, in a scale corresponding to the EC-scale. To get the grade E (passed) for the entire course, the student must have completed all parts in the examination and that the grading of the article reaches at least "accepted".

    Then, the grade for the entire course will be set from the grade of the article, but where the student's performance on assessments of other articles as well as presentation and discussion of their own article can raise or lower the grade one step on the scale, however, not less than E.

    The students' rights and obligations of the examination follow the guidelines and regulations at the University of Borås

Student rights and obligations at examination are in accordance with guidelines and rules for
the University of Borås.

Literature and Other Teaching Materials

- Relevant scientific articles about current research, practice and sustainability, searched by the student as part of the examination
- Additional articles may be assigned during the course.

Student Influence and Evaluation

The course is evaluated in accordance with institutional guidelines, where students' views should be obtained. The results of the evaluation will be published and fed back to participating and prospective students in accordance with institutional guidelines, and forms the basis for future course and program development.

Miscellaneous

The course is given at the Master's programmes in informatics. The course will also be given as a stand-alone course.