

## Trends in Informatics

### Trender inom informatik

7.5 credits

7.5 högskolepoäng

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**Ladok Code:** 22TR1D

**Version:** 3.0

**Established by:** Committee for Education in Librarianship, Information, and IT 2017-03-14

**Valid from:** Autumn 2017

**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

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### 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

Upon completion of the course the student is expected to:

#### *Knowledge and understanding*

- 1.1 explain the various key areas of research in informatics,
- 1.2 discuss informatics research environment and nature,
- 1.3 participate in discussions concerning informatics research in practice and in relation to sustainable development,

#### *Competence and skills*

- 2.1 independently accomplish a comparative academic study, related to the connection between research, practice, and sustainable development,
- 2.2 report their own limited study in a research article,
- 2.3 critically examine and evaluate scientific articles within the field of Informatics, as well as

#### *Judgment and approach*

- 3.1 demonstrate a critical approach to both own and others' research results, as well as to the impact of research in the field of informatics and sustainable development,
- 3.2 reflect and critically analyze how sustainable development and sustainability work in society is affecting both research and practice in the field of IT from different perspectives (social, economic, environmental) and,
- 3.3 reflect and critically analyze how research and practice in Information Technology 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 language of instruction is English.

## Forms of Examination

The course is examined through:

- Submission 1: Written report of the project in the form of a scientific article

Learning objectives 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 3.1, 3.2, 3.3.

Credits: 4.0

Grading scale: A/B/C/D/E/Fx/F

- Submission 2: assessment of scientific articles, i.e., peer-review

Learning objective 2.3., 3.1.

Credits: 2.5

Grading scale: UG

- Demonstration of knowledge: Presentation and discussion of own article at a seminar

Learning objective 2.2, 3.1

Credits: 1.0

Grading scale: UG

For a passing grade (A-E) on the entire course, the grade Pass (G) is required on *Submission 2* and *Demonstration of knowledge* together with at least grade E on *Submission 1*. A higher grade on the entire course is thereafter determined by the grade on *Submission 1*.

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

## Literature and Other Teaching Materials

The course literature is in English.

- 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 the current guidelines for course evaluations at the University of Borås, where students' views should be sought. The course evaluation report will be published and disseminated to participating and prospective students in accordance with the current guidelines, and forms the basis for future development of courses and training programs. The course coordinator is responsible for that the evaluation is performed according to current guidelines.

## Miscellaneous

The course is given at the Master's programmes in informatics.