



System Development Philosophies Systemutvecklingsfilosofier

7.5 credits

7.5 högskolepoäng

Ladok Code: 22SU1D

Version: 2.0

Established by: The Teaching Committee 2013-12-11

Valid from: Spring 2014

Education Cycle: Second cycle

Main Field of Study (Progressive Specialisation): Informatics (A1N)

Disciplinary Domain: Natural sciences

Prerequisites: Completed courses of 60 Credits in Informatics including System Analysis Design 7.5 Credits.

Subject Area: Informatics/Computer and Systems Sciences

Grading Scale: ECTS-credits

Content

The course shall acquaint students with topics that are relevant in systems development. The primary goal is a theoretical understanding of different system development philosophies to determine an approach that is suitable for a particular development project.

- Perspectives, concepts and approaches to systems development
- Methodologies for systems development
- Philosophies and paradigms in systems development
- Techniques and tools in systems development

Learning Outcomes

The overall aim of the course is that students shall develop improved skills in understanding and applying different perspectives on systems development.

After having completed the course the student should be able to:

Knowledge and understanding

1. Explain the philosophies behind systems development,
2. Explain the principles that control systems development,
3. Explain the methods that are used in systems development,
4. Explain the techniques that support systems development,
5. Explain the tools that support system development methods,

Skills and abilities

6. Evaluate system development methods,
7. Evaluate system development tools,
8. Evaluate system development techniques,

9. Evaluate system development paradigms,
10. Perform a comparative analysis of system development approaches,

Judgment and approach

11. Discuss the perspectives lying behind the approaches
12. Discuss the influences of the philosophies on the development of methodologies
13. Discuss current research related to system development.

Forms of Teaching

Lectures, tutorials and seminars. Teaching is conducted in English.

Forms of Examination

Examination takes place in form of a seminar with individual papers (learning outcomes 1-13). The grade scale is according to ECTS (A-F). The grade for the seminar determines the grade for the course.

Student rights and obligations at examination are according to guidelines and rules for the University of Borås.

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Literature and Other Teaching Materials

Avison, David; Fitzgerald, Guy (2006): *Information Systems Development – Methodologies, Techniques and Tools*, McGraw-Hill, ISBN 978-0077114176

Student Influence and Evaluation

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

Miscellaneous

The course is part of the Systems Science and Business Informatics programmes, Master programmes in Informatics and for international students.