



Course syllabus

Faculty of Technology

Department of Informatics

1IL537 Systemutveckling, 7,5 högskolepoäng

1IL537 Systems Development, 7.5 credits

Main field of study

Informatics

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

First Level

Progression

G1F

Date of Ratification

Approved 2012-12-10

Revised 2020-12-08 by Faculty of Technology. Literature list is revised.

The course syllabus is valid from spring semester 2021

Prerequisites

Introduction to Informatics, 7.5 credits and Information Concept 7.5 credits or equivalent.

Objectives

Upon completion of the course, the student should be able to:

(IS = Information system)

- explain central concepts and approaches within IS analysis and IS development
- explain different methods, techniques and tools that are used in IS modeling
- identify and evaluate different strategies for IS development
- analyze and evaluate different IS architectures
- plan and execute IS analysis and create requirements specification
- plan a general technical design for information systems
- create a co-development plan for business activities and information systems
- reflect on the role of information logistics in relation to information systems development.

Content

The course comprises:

- definition and use of concepts within IS analysis and IS development
- models, methods, techniques and tools that are used in IS development
- strategies for IS development
- IS architectures
- co-development of business activities and information systems
- the role of information logistics in relation to IS development

Type of Instruction

The teaching consists of lectures, group work and seminars. Participation in group work and seminars is compulsory.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Assessment of student performance is made through written test and/or oral examinations and/or presentation of mandatory assignments. The assessment method is decided at the start of the course.

Students who do not pass the regular examination will be offered retrials close to the regular examination.

Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed.

Required Reading and Additional Study Material

Required reading

Bengt Sandblad, Jan Gulliksen, Ann Lantz, Åke Walldius, Carl Åborg. Digitaliseringen och arbetsmiljön, (Latest edition), Studentlitteratur. 300 pages

Reference literature

Beynon-Davies, Paul (2009). Business Information Systems. Palgrave MacMillan. pp 482.

Hillard, Robert (2010). Information-Driven Business: How to Manage Data and Information for Maximum Advantage. John Wiley&Sons. pp 216.