Linnæus University

Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

1IL537 Systemutveckling, 7,5 högskolepoäng
Systems Development, 7.5 credits

Main field of study
Information Systems

Subject Group
Informatics/Computer and Systems Sciences

Level of classification
First Level

Progression
G1F

Date of Ratification
Approved by the Board of the School of Computer Science, Physics and Mathematics 2012-12-10

The course syllabus is valid from autumn semester 2013

Prerequisites
1IL217 Problem solving in Information Logistics 7.5 credits, och 1IL227 Information Concept 7.5 credits and 1IL237 Project Management 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.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Course Evaluation
A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The results of the course evaluation will be filed at the department.

Required Reading and Additional Study Material
Required reading
Avison, D. & Fitzgerald, G. (2006). Information Systems Development, 4th edition. McGrawHill. pp 645.

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.