Linnæus University

Course syllabus

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

1IK005 Verksamhetsmodellering, 7,5 högskolepoäng
Business Modeling, 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
2009-09-08

Revised 2011-08-20. Revision made for prerequisites.

The course syllabus is valid from spring semester 2012

Prerequisites
Introduction to Informatics (1IK001) or equivalent.

Objectives
The course intends to give the students the knowledge and skills to methodically analyze and create models of businesses with a focus on business processes, information-flows and decision-making used in management consulting.
After finishing the course, the student is expected to possess:

- Knowledge of different approaches to create business models as support for management consulting in organizations.
- Proven knowledge of general theory, methods and techniques involved in modeling.
- Skills following a structured method for analysis and modeling of business processes.
- Skills at conducting and documenting information-flow analysis.
- Understanding of the connection between business-oriented and computer-oriented modeling efforts.

Content
The course consists of:

- Method and theory behind modeling methods and techniques, both in general and as applied to business modeling.
- A survey and application of processoriented approaches to management consulting and development.
- A description and application of function-oriented approaches to description and development of information flows and information use in business.

Type of Instruction
The course consists of lectures, seminars and assignments. The assignments are conducted individually or in groups. Participation in certain activities is mandatory.

Examination
The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).
Assessment of the students performances are conducted through written exams and/or verbal exams and/or presentation of mandatory assignments. The main form of examination is decided upon when the course starts.
Students who failed to pass the regular examination are given the opportunity attempt a re-try examination shortly after 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 result of the course evaluation will be filed at the department.

Required Reading and Additional Study Material
Required reading
Ljungberg, A. & Larsson, E., *Processbaserad verksamhetsutveckling*, Studentlitteratur, 2001. Pages 358.

Informatik, *Kompendium*. Pages 100.

Reference literature
Arlow, J. & Neustadt, I., *UML 2 and the Unified Process: Practical ObjectOriented Analysis and Design*, AddisonWesley

Professional, 2005. Sidor 50. Avison, D. & Fitzgerald, G., *Information Systems Development, 4th edition*, McGrawHill, 2006. Pages 130.