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 Organisational Committee 2009-09-08

The course syllabus is valid from spring semester 2010

Prerequisites
At least 15 higher education credits in Informatics within the interval 1-30 higher education credits, including Introduction to Informatics 7,5 higher education credits (1IK001) or equivalent.

Expected learning outcomes

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, presentations and assignments.
The assignments are conducted individually or in groups. Participation in certain activities are 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 written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Required Reading and Additional Study Material

Required reading

Hugosson, M.-Å., *MBI-metoden: en metod för verksamhetsanalys*, Studentlitteratur, 1983. Pages 146.

Ljungberg, A. &Larsson, E., *Processbaserad verksamhetsutveckling*, Studentlitteratur, 2001. Pages 358.

Arlow, J. & Neustadt, I., *UML 2 and the Unified Process: Practical Object-Oriented Analysis and Design*, Addison-Wesley Professional, 2005. Pages 50.

Avison, D. & Fitzgerald, G., *Information Systems Development, 4th Ed.*, Mcgraw-Hill, 2006. Pages 130.

Informatics, *Compendium*. Pages 100.