



## Course syllabus

Faculty of Technology

Department of Informatics

1IK005 Verksamhetsmodellering, 7,5 högskolepoäng

1IK005 Business Modeling, 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 2009-09-08

Revised 2023-10-09 by Faculty of Technology. Literature list is revised.

The course syllabus is valid from spring semester 2024

### **Prerequisites**

Foundations of Informatics (1IK071) and Introduction to Informatics (1IK001), or equivalent.

## Objectives

After completing the course, student is expected to

- account for different process-oriented approaches and techniques for modeling and analyzing business operations with respect to activities, data and information flows, information resources, and value creation and customer-orientation;
- methodically analyze and create models using different techniques and modeling approaches to visualize business operations processes with respect to the above; and
- reflect upon and evaluate their applicability and usefulness to different types of business operations.

## Content

The course covers methods and techniques for modeling business operations from a process-oriented perspective, with respect to activities, information flows and resources, information resources, and value creation and customer-orientation. Methods

and techniques covered are Business Process Modelling Notation (BPMN), Data Flow Diagramming (DFD) and Value-based process modeling (VPM). Furthermore, the course covers the use of computer-based tools to model and document these.

### Type of Instruction

The course consists of lectures, seminars, assignments, and supervision.

### Examination

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

Students' performance is assessed through group assignment, 4.5 credits (U-G), and written exam, 3 credits (U-VG). Course grade is determined as a weighting of the individual examination components.

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

### Course Evaluation

During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

### Required Reading and Additional Study Material

#### Mandatory literature

Dennis, Alan, Wixom, Barbara Haley, and Roth, Roberta M., *System Analysis and Design*, 7th Edition, EMEA Edition, Wiley, 2019, 50 (464), ISBN 9781119585855.

Ljungberg, Anders, and Larsson, Everth, *Processbaserad verksamhetsutveckling*, 2a uppl., Studentlitteratur, 2012, 300 (540), ISBN 9789144059761.

Silver, Bruce, *BPMN Quick and Easy Using Method and Style*, Cody-Cassidy Press, 2017, 124 (124), ISBN 9780982368169.

#### Complementary literature

Silver, Bruce, *BPMN Method and Style, 2nd Edition, with BPMN Implementer's Guide*, Cody-Cassidy Press, 2011, 140 (270), ISBN 9780982368114.