



COURSE SYLLABUS

Tillämpad produktionsekonomi Applied Production Economics 7.5 credits (7,5 högskolepoäng)

Course code: IY2621

Main field of study: Industrial Economics and Management

Disciplinary domain: Technology

Education level: Second cycle

Specialization: AIF - Second cycle, has second cycle course/s as entry requirements

Subject area: Industrial Engineering and Management

Language of instruction: English

Applies from: 2019-11-01

Approved: 2019-10-25

1. Decision

This course is established by Dean 2019-10-17. The course syllabus is approved by Head of Department of Industrial Economics 2019-10-25 and applies from 2019-11-01.

2. Entry requirements

Admission to the course requires completed courses in Economic Analysis of Markets, Firms and Industries 7.5 credits and Globalization, Digitalization and Internationalization Strategies 7.5 credits and taken course Statistics and Econometrics 7.5 credits.

3. Objective and content

3.1 Objective

The purpose of the course is to develop a deeper understanding of the flow of goods within and outside a firm and the resulting economic flows using quantitative methods. The course also includes methods and models of forecasting and planning the flow of goods and money under different conditions.

3.2 Content

The course covers a range of logistics models and analyses the economic flows that relate to the flow of goods and services. The course also includes linear and non-linear models for forecasting and planning a company's operations.

4. Learning outcomes

The following learning outcomes are examined in the course:

4.1 Knowledge and understanding

On completion of the course, the student will be able to:

- explain how logistics can affect a company's value
- explain different schools of thought in logistics
- explain different methods used to forecast and plan a company's operations

4.2 Competence and skills

On completion of the course, the student will be able to:

- apply different logistics methods and models
- apply different methods and models used to forecast a company's operations
- apply relevant mathematical and statistical methods for financial analysis
- use spreadsheet software to solve problems introduced in the course

4.3 Judgement and approach

On completion of the course, the student will be able to:

- perform adequate calculations to develop a company's production of services or goods

5. Learning activities

Learning activities consist of lectures, seminars, group work and self-studies. The course is examined on an ongoing basis throughout the various examination components.

6. Assessment and grading

Modes of examinations of the course

Code	Module	Credits	Grade
I910	Written assignment 1	1.5 credits	GU
I920	Written assignment 2	1.5 credits	GU
I930	Written examination	4.5 credits	AF

The course will be graded A Excellent, B Very good, C Good, D Satisfactory, E Sufficient, FX Fail, supplementation required, F Fail.

The course-PM for each course revision should include the assessment criteria and make explicit in which modes of examination that the learning outcomes are assessed.

An examiner can, after consulting the Disability Advisor at BTH, decide on a customized examination form for a student with a long-term disability to be provided with an examination equivalent to one given to a student who is not disabled.

7. Course evaluation

The course evaluation should be carried out in line with BTH:s course evaluation template and process.

8. Restrictions regarding degree

The course can form part of a degree but not together with another course the content of which completely or partly corresponds with the contents of this course.

9. Course literature and other materials of instruction

Chopra, S and Meindl, P, Supply Chain Management - strategy, planning and operations, Pearson, latest edition

Dicken, P. (Latest edition) Global Shift. Guilford

Scientific articles, reports and written materials of maximum 500 pages.