



**Karolinska  
Institutet**

Course syllabus for

## **Industrial Management, 6 credits**

Industriell ekonomi, 6 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

Please note that the course syllabus is available in the following versions:

Autumn2016 , Autumn2017 , Autumn2018 , Autumn2019

Course code	4BP036
Course name	Industrial Management
Credits	6 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Bioentrepreneurship
Level	G2 - First cycle 2
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Learning, Informatics, Management and Ethics
Decided by	Programme Committee 7
Decision date	2016-03-23
Revised by	Education committee LIME
Last revision	2017-03-23
Course syllabus valid from	Autumn 2017

## **Specific entry requirements**

A bachelor's degree or a professional degree equivalent to a Swedish Bachelor's degree of at least 180 credits in health care, biomedicine, biology, cellular and molecular biology, pharmaceuticals, chemistry, medicine or biotechnology. And proficiency in English equivalent to English B/English 6.

## **Objectives**

Upon completion of the course, the student should be able to:

Regarding knowledge and understanding

- Explain and describe various technology-based business models and the dynamics of value creation, value proposition, and value capture in industrial enterprises
- Explain and describe how industrial activities are managed and organized.
- Understand the basic principles of financial accounting and reporting

Regarding skills and ability

- Produce and interpret an industrial company's Annual Statement, at a basic level.
- Produce and analyze financial reports, on a basic level.

Regarding judgement and approach

- Describe the operations of an industrial enterprise from various perspectives, and analyze its basic strengths and weaknesses based on concepts from the field of Industrial Management
- Select, interpret and use different costing techniques as a basis for decisions in various business situations.

## Content

The course focuses on the basic concepts and models that an engineer needs in order to understand and manage financial, organizational, and managerial issues in technology-based and industrial activities.

Part 1: Industrial value creation

- Technology as a competitive factor
- Technology-based business models and strategies
- Innovation, production and marketing Organization
- Human resource
- Management and leadership

Part 2: Costing

- Profitability analysis
- Product costing
- Investment calculations

Part 3: Financial accounting and corporate finance

- Bookkeeping and financial accounting
- Annual Statement and Financial analysis
- Corporate Finance

## Teaching methods

The course consists of lectures and exercises. A number of voluntary learning assignments, including a seminar task, are provided during the course. These can give bonus points on the first exam.

## Examination

The examination consists of

- a written exam (fail/pass/pass with distinction).

### Limited number of examinations

Students who have not passed the regular examination are entitled to participate in five more examinations. If the student has failed six examinations/tests, no additional examination or new

admission is provided.

Participation in an examination is defined as an occasion on which a student attends an examination, even if the student submits a blank examination paper. If a student has registered to sit an examination, but does not attend the examination, this is not defined as participation in the examination.

## **Transitional provisions**

After each course there will be at least 5 opportunities to sit the examination within a two-years period.

## **Other directives**

The course language is English.

A course evaluation will be conducted according to guidelines decided by the Board of Higher Education.

## **Literature and other teaching aids**

Additional compulsory material:

Material for exercises

Additional material distributed during the course

*Engwall, Mats*

**Industrial management : tools and techniques**

1. ed. : Lund : Studentlitteratur, 2016 - 248 s.

ISBN:9789144107882 LIBRIS-ID:19544099

[Library search](#)