



**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	Programnämnd 7
Decision date	2016-03-23
Revised by	Education committee LIME
Last revision	2018-03-06
Course syllabus valid from	Autumn 2018

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

Course book will be announced closer to the course start.