



**Karolinska  
Institutet**

Course syllabus for

## **Industrial Management, 6 credits**

Industriell ekonomi, 6 hp

This course syllabus is valid from autumn 2022.

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

Autumn2020 , Autumn2022 , Autumn2024

Course code	4BP039
Course name	Industrial Management
Credits	6 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Bioentrepreneurship
Level	AV - Second cycle
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Learning, Informatics, Management and Ethics
Decided by	Utbildningsnämnden LIME
Decision date	2020-03-04
Revised by	Education committee LIME
Last revision	2022-04-01
Course syllabus valid from	Autumn 2022

## **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*

- Describe and explain various technology-based business models and the dynamics of value creation, value proposition, and value capture in industrial enterprises
- Describe and explain how industrial activities are managed and organized
- Describe the activities and strategic position of a real industrial company with the help of concepts from the subject of industrial economics and carry out a basic economic analysis of the company's operations, financial position and how it is financed

*Regarding skills and ability*

- Use the basic concepts and principles for accounting, bookkeeping and describe and explain how an industrial company's operations can be financed
- Compile and analyze financial reports for a real industrial company

*Regarding judgement and approach*

- Select, interpret and use different costing techniques as a basis for decisions in various business situations

## Content

Engineering work involves more than just technology. In order to be able to take part in technology-based transactions, implement projects, develop businesses and lead teams and employees in today's companies, good knowledge of industrial management is necessary. In practice, success lies in understanding both the technical and financial aspects of decisions. This course will give you a basic knowledge of industrial management.

The course includes the following main areas within industrial management: industrial value creation, Cost\_Volume\_Profit (CVP) analysis, product costing, investment appraisal, bookkeeping, accounting, financial analysis, cash flow analysis, and corporate financing.

The course consists of three parts:

1. Industrial management and value creation,
2. Product costing and investment appraisal, and
3. Financial accounting and corporate finance.

## Teaching methods

The course consists of lectures and exercises. During the course, one voluntary business simulation including assignments that relate to the simulation, that can give bonus points on the first exam.

### Compulsory participation

The examiner assesses if and how absence from compulsory parts can be compensated. Before the student has participated in compulsory parts or compensated absence in accordance with the examiner's instructions the student's course results will not be reported. Absence from a compulsory part may result in the student having to wait to compensate until the next time the course is given.

## Examination

The examination consists of

- three written exams (fail/pass/pass with distinction)
- one assignment (fail/pass)

The grade on the course will be a combination of the grades from the written exams and the assignment.

### A 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.

The number of times that the student has participated in one and the same examination is regarded as an examination session. Submission of a blank exam is regarded as an examination session. An examination for which the student registered but not participated in, will not be counted as an examination.

If there are special grounds or a need for adaptation for a student with a disability, the examiner may decide to deviate from the syllabus's regulations on the examination form, the number of examination opportunities, the possibility of supplementation or exemptions from the compulsory section/s of the course etc. Content and learning outcomes, as well as the level of expected skills, knowledge and abilities, may not be changed, removed or reduced.

## Transitional provisions

Examination will be provided during a time of two years after a possible cancellation of the course. Examination can take place according to an earlier literature list during a time of one year after the date when a major renewal of the literature list has been made.

## Other directives

The course language is English.

Course evaluation is carried out according to the guidelines that are established by The Committee for Higher Education.

## Literature and other teaching aids

### Mandatory literature

#### Modern industrial management

*Engwall, Mats; Jerbrant, Anna; Karlson, Bo; Storm, Per*

First edition : Lund : Studentlitteratur, [2018] - 483 sidor

ISBN:9789144121024 LIBRIS-ID:4c10hj2n2d3x7vvg

*Always use the latest edition of this book*

[Library search](#)

*Engwall, Mats; Karlson, Bo; Akhbari, Mohammad*

#### Exercises for modern industrial management

First edition : Lund : Studentlitteratur, [2019] - 300 sidor

ISBN:9789144136103 LIBRIS-ID:2cgh3ck50xzqstd2

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