



## COURSE SYLLABUS

# Industrial Finance and Controlling, 7.5 credits

*Industriell ekonomistyrning, 7,5 högskolepoäng*

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<b>Course Code:</b> TEKG19	<b>Education Cycle:</b> First-cycle level
<b>Confirmed by:</b> Dean Jun 1, 2019	<b>Disciplinary domain:</b> Technology (75%) and social sciences (25%)
<b>Revised by:</b> Director of Education Jun 5, 2024	<b>Subject group:</b> IE1
<b>Valid From:</b> Jan 1, 2025	<b>Specialised in:</b> G1N
<b>Version:</b> 4	<b>Main field of study:</b> Industrial Engineering and Management

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### Intended Learning Outcomes (ILO)

After a successful course, the student shall:

Knowledge and understanding

- display knowledge and understanding of industrial finance and controlling and its role in an industrial organization, including knowledge of the area's basic concepts, methods and models as well as orientation of current research issues.
- display knowledge and understanding about entrepreneurship and about how different ideas can be developed into business operations
- display knowledge and understanding of design, management, and development of industrial operations with a focus on financial management and controlling
- display knowledge and understanding in the area of sustainability and specifically within economical sustainability.

Skills and abilities

- demonstrate the ability to design, lead, and develop industrial activities by establishing basic calculations, budgets, and analyses
- demonstrate the ability to develop a business idea and business plan
- demonstrate the ability to use calculation tools.

Judgement and approach

- demonstrate the ability to propose and compare different alternatives for design, management, and development of industrial operations by assessing calculations, budgets, and analyses and assessing their consequences and risks
- demonstrate the ability to assess relevant societal and ethical aspects with a focus on financially sustainable development.

### Contents

The course provides basic knowledge and abilities in industrial finance and controlling. The focus of the course is on product calculation, budgeting, management accounting, deviation

analysis, investment calculation, and profitability calculation.

The course includes the following elements:

- Basic finance and control concepts
- Product calculation
- Budgeting
- Management accounting
- Investment appraisal
- Performance measurement (profitability assessment)
- Financial sustainability
- Calculation tools

### **Type of instruction**

The teaching consists of lectures, exercises, laboratory sessions and assignments.

The teaching is conducted in English.

### **Prerequisites**

General entry requirements and Physics I, Chemistry I, Mathematics 3c. Or: Physics A, Chemistry A, Mathematics D (or the equivalent).

### **Examination and grades**

The course is graded 5,4,3 or Fail.

Registration of examination:

Name of the Test	Value	Grading
Examination <sup>1</sup>	4 credits	5/4/3/U
Assignment	2 credits	U/G
Laboratory	1.5 credits	U/G

<sup>1</sup> Determines the final grade of the course, which is issued only when all course units have been passed.

### **Course literature**

The literature list for the course will be provided 8 weeks before the course starts.

Title: Modern Industrial Management

Edition: 2 (2020)

Authors: Mats Engvall, Anna Jerbrant, Bo Karlson och Per Storm

ISBN: 9789144141527

Publisher: Studentlitteratur AB