



COURSE SYLLABUS

Principer inom ledarskap och management

Principles of leadership and management

7.5 credits (7,5 högskolepoäng)

Course code: IY2602

Main field of study: Industrial Economics and Management

Disciplinary domain: Technology

Education level: Second cycle

Specialization: XXX - Second cycle, in-depth level of the course cannot be classified

Subject area: Industrial Engineering and Management

Language of instruction: English

Applies from: 2020-08-31

Approved: 2020-08-06

Discontinued: 2023-05-08

1. Decision

This course is established by Dean 2017-05-02. The course syllabus is approved by Head of Department of Industrial Economics 2020-08-06 and applies from 2020-08-31.

2. Entry requirements

Bachelor degree in science in engineering including a degree project of 7,5 hp, 15 hp mathematics on basic/advanced level, 5 hp industrial economics and organization, business administration or the equivalent, English B and 2 years of work experience.

3. Objective and content

3.1 Objective

The professional life of an engineer includes many challenges that are not exclusively technical. In order to achieve optimal performance, an engineer working within an organisation must be able to understand and master management issues and combine the two skills. A successful engineer must know how to lead both people and processes in contexts such as product development. This course provides students with tools enabling them to contribute efficiently as engineers to an organisation in the capacity of team member, project leader or line manager, and consequently improve the results of the technological processes of the organisation. The aim of the course is to provide students with a broad understanding of different types of leadership, both within line and project management. Special emphasis will be placed on the interplay between engineering skills and management and business perspectives, in the intersection between technology and finance. On completion of the course, students are well prepared to develop and adapt their leadership skills to different situations.

3.2 Content

The course deals with many different aspects of leadership of relevance to the role of the engineer, e.g. leader characteristics, leadership adapted to different situations, ethics and social responsibility, motivation, coaching, creativity and innovation (primarily technological), communication and conflict resolution, and international aspects of management.

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:

- account for and analyse individual and organisational aspects of leadership
- account for and analyse the role of leadership for a company's success
- explain and analyse the different methods of project management and their underlying assumptions
- use relevant concepts and models to execute independent analyses of authentic cases, especially of product development processes
- demonstrate familiarity with the concept of diversity and the significance of diversity in an organisation
- analyse leadership from an ethical perspective
- on the basis of reflexive exercises, practise and exhibit development of their own leadership skills

4.2 Competence and skills

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

- synthesise different types of professional knowledge (especially within technology and finance) to support a decision-making process
- demonstrate good verbal and written skills
- execute literature surveys and information searches within the field

4.3 Judgement and approach

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

- on the basis of self-reflexive exercises, have practised their ability to judge their own competence and need for development within the

5. Learning activities

The teaching consists of lectures and seminars, at which students are expected to participate actively. Students will be working on different assignments throughout the course and receive feedback continuously. The course includes both individual and group assignments.

6. Assessment and grading

Modes of examinations of the course

Code	Module	Credits	Grade
I710	Individual assignment	1 credits	AF
I720	Group assignment	2 credits	GU
I730	Reflexiv uppgift	1.5 credits	AF
I740	Report	3 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

Mainbook:

DuBrin, A. J. (2015). Leadership: Research findings, practice, and skills. Nelson Education.

Latest version

One of following titles:

Tonnquist, Bo: Project management, Sanoma Utbildning, latest version.

A guide to the project management body of knowledge (PMBOK guide). Project Management Institute. Latest version

Lock, D (2019) Project Management. Taylor Francis. Latest version

Scientific papers and web-based material provided in the course.