



## Introduction to industrial engineering Introduktion till industriell ekonomi

7.5 credits

7.5 högskolepoäng

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**Ladok Code:** TBE011

**Version:** 1.1

**Established by:** Board of the department 2009-10-02

**Valid from:** Autumn 2009

**Education Cycle:** First cycle

**Main Field of Study (Progressive Specialisation):**

**Disciplinary Domain:** Technology

**Prerequisites:**

**Subject Area:**

**Grading Scale:** Fail (U) or Pass (G)

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### Content

This course is designed to give the students necessary tools to manage and succeed in their future study programme. Students will become accustomed to what it means to study at a Swedish university. They will also become familiarized with what resources they have at their disposal, e.g. electronic resources, Library and Learning Resources, to enhance their academic achievements. In this context the students will also learn how to use Information Communication Technology (ITC) skills required to succeed at the University.

The Course will also give students time to reflect on different learning strategies and study techniques that could help them realize what strategies are the most effective for them.

Emphasis is placed on being able to work in and solve problems in multi cultural, diversified groups. Therefore, students will receive information about how group work is performed and how they can implement this information when participating in group work. They will also discuss cultural differences and stereotypes in intercultural communication, and be given concrete examples that help them to better understand the academic culture in Sweden. We will also discuss the expectations placed on students in the Swedish academic setting.

Another point of emphasis is to create an understanding of how important language is when it comes to correctly read, interpret, produce and present academic texts. To this end subject specific, scientific articles will be read and analysed.

The student will also be familiar with different problems in the field of industrial engineering. The students will learn tools, methods to manage and solve these problems.

### Learning Outcomes

Upon completion of the course, the student is expected to be able to:

- paraphrase and account for scientific articles within the field of study while handling references correctly and using an adequate language level
- identify what constitutes plagiarism in order to avoid it
- find and use different scientific databases in relation to a subject specific area while applying critical evaluation of the information sources
- plan, write and present a reliable technical report
- describe the different elements that influence a proper presentation and what is required to achieve a professional presentation
- account for the different aspects that affect group dynamics and how to be an active participant in group exercises
- plan and solve technical problems within the area industrial engineering

## **Forms of Teaching**

Tuition is conducted through lectures, seminars, workshops, group activities and individual work.

Tuition is conducted in English.

## **Forms of Examination**

The course will be examined through the following examination elements:

### *Computer Skills*

Learning outcomes:

Credits: 0.5

Grading scale: Fail (U) or Pass (G)

### *Presentational Skills, Group Psychology and Intercultural Co*

Learning outcomes:

Credits: 3.5

Grading scale: Fail (U) or Pass (G)

### *Academic Writing*

Learning outcomes:

Credits: 2.5

Grading scale: Fail (U) or Pass (G)

### *Inspirational Lectures in Industrial Engineering*

Learning outcomes:

Credits: 1

Grading scale: Fail (U) or Pass (G)

Student rights and obligations at examination are in accordance with guidelines and rules for the University of Borås.

## **Literature and Other Teaching Materials**

## **Student Influence and Evaluation**

Throughout the ongoing course students are encouraged to comment on course material and course design. A course evaluation will be conducted at the end of the course. The results of the evaluation will be published in a forum available to the students.

## **Miscellaneous**

Students are expected to keep themselves informed through available channels such as Ping Pong, Kronox (time schedule) etc.