

## Course Syllabus

### Industrial Production 7.5 Credits\*, First Cycle

#### Learning Outcomes

Upon completion of this course, the student shall be able to:

- create production process plans for the manufacture of details and assembled products
- describe the possibilities and limitations of industrial robots
- describe what companies need to be aware of in terms of social and ethical aspects
- Assess products and machinery in terms of the risk of malfunction and personal injury, and propose measures that reduce unacceptable risks

#### Course Content

The course addresses different areas that a manufacturing company needs to consider so as to achieve an effective production process, such as capacity planning, resource planning, process planning, documentation, work environment and risk assessment. Theories and models related to practical measures are discussed in seminars.

#### Assessment

Written report 1: 0.5 credits

Written report 2: 0.5 credits

Written report 3: 1 credit

Compulsory participation in seminars: 5.5 credits

#### Forms of Study

Lectures, seminars, workshops

#### Grades

The Swedish grades U–G.

#### Prerequisites

At least 120 credits in Mechanical Engineering

#### Other Information

Students are expected to have knowledge and understanding from the previous courses in the programme.



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**Subject:**

Mechanical Engineering

**Group of Subjects:**

Mechanical Engineering

**Disciplinary Domain:**

Technology, 100%

**Progression Indicator:**

G2F

**Approved:**

Approved 11 October 2018

Valid from 30 November 2018