



## Material and Production Management Materialplanering och styrning på grundnivå

7.5 credits

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**Ladok Code:** TI6612

**Version:** 2.0

**Established by:** The Teaching Committee 2011-09-30

**Valid from:** Autumn 2011

**Education Cycle:** First cycle

**Main Field of Study (Progressive Specialisation):** Industrial Economics (G1F)

**Disciplinary Domain:** Technology

**Prerequisites:** General entry requirements with a minimum grade of G/3 in Mathematics C (field-specific entry requirements 8 with the exception of Physics

B, Chemistry A and Mathematics D)

**Subject Area:** Industrial Engineering and Management

**Grading Scale:** U, 3, 4 or 5

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### Content

The course will provide a comprehensive view of materials planning and steering with the following contents:

- prerequisites for materials planning and steering processes
- forecasting
- the customer order process
- sales and operations planning
- master planning
- material requirements planning, order point systems, run-out time planning and direct call-off methods
- capacity planning methods
- production activity control methods.

### Learning Outcomes

Upon completion of the programme, the student shall be able to:

- describe materials planning and steering philosophies and technologies
- explain different materials planning and steering prerequisites for a company
- describe methods of forecasting for materials planning and steering
- explain customer order processes
- explain the process of sales and operations planning.
- calculate master planning problems

- analyse prerequisites for materials planning and choose appropriate materials planning method
- explain the process of capacity planning
- describe the process of production activity control.

## **Forms of Teaching**

## **Forms of Examination**

The course will be examined through the following examination elements:

Learning outcomes:

Credits: 3

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

### *Laboration*

Learning outcomes:

Credits: 0.5

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

### *Examination*

Learning outcomes:

Credits: 4

Grading scale: U, 3, 4 or 5

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**

The head of department and teacher responsible for the course are responsible for ensuring that students are invited systematically and regularly to put forward their views on the course. The results of the evaluations will be reported back to the students and will form the basis for the future structure of the course.

## **Miscellaneous**