



## COURSE SYLLABUS **Production Management, 6 credits**

*Produktionsledning, 6 högskolepoäng*

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<b>Course Code:</b> TPLS27	<b>Education Cycle:</b> Second-cycle level
<b>Confirmed by:</b> Dean Mar 1, 2016	<b>Disciplinary domain:</b> Technology (95%) and social sciences (5%)
<b>Valid From:</b> Jan 1, 2017	<b>Subject group:</b> IE1
<b>Version:</b> 1	<b>Specialised in:</b> A1F
<b>Reg number:</b> JTH 2016/647-313	<b>Main field of study:</b> Production Systems

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### **Intended Learning Outcomes (ILO)**

After completing the course, the student shall

Knowledge and understanding

- Have knowledge of the difficulties and limitations in decision making and shop floor control
- Have knowledge of different forms of remuneration and its consequences
- Have knowledge of and be able to describe the management and control of technical maintenance
- Have knowledge of and be able to describe the management and control of quality

Skills and abilities

- Demonstrate the skills to evaluate and measure the production activities at different organizational levels from individual to full production

Judgement and approach

- Demonstrate an understanding of and be able to evaluate the operation of a production system

### **Contents**

The course addresses the organization, management and operation of production from an industrial perspective. Manufacturing activities are treated with respect to shop floor control, decision making and measuring performance and productivity, as well as the development and management of maintenance and quality.

The course includes the following topics:

- Applied shop floor control
- Information flows
- Decision-making
- Employee compensation
- Evaluation of production – performance indices - Balanced Scorecard - lean accounting
- Productivity and Productivity Measurement
- Work Measurement - computer-based tools

- Basics of total productive maintenance, TPM
- Basics of modern quality philosophies

### Type of instruction

Lectures, laboratory works, seminars and exercises.

The teaching is conducted in English.

### Prerequisites

Passed courses 180 credits in first cycle, at least 90 credits within the major subject Mechanical Engineering, Industrial Engineering and Management or Civil Engineering, and 21 credits Mathematics, and completed course Production Development, Strategy-System-Technology, 15 credits, and English Language requirements corresponding to English 6 or English B in the Swedish upper secondary school (or the equivalent).

### Examination and grades

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

The grade is decided from the results of the written exam and passed grade for all other tests.

Registration of examination:

Name of the Test	Value	Grading
Examination <sup>1</sup>	3 credits	5/4/3/U
Laboratory Work, Exercises and Seminars	3 credits	U/G

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

### Other information

Exemption from entry requirement allowed according to the selection groups of the program, where the course is included.

### Course literature

Literature

The literature is preliminary until one month before the course starts.

Course compendium (digital, pdf-format)

Selection of scientific articles.