



COURSE SYLLABUS **Production Management, 7.5 credits**

Produktionsledning, 7,5 högskolepoäng

Course Code: TPLS28	Education Cycle: Second-cycle level
Confirmed by: Dean Feb 1, 2017	Disciplinary domain: Technology (95%) and social sciences (5%)
Valid From: Jan 1, 2018	Subject group: IE1
Version: 1	Specialised in: A1F
Reg number: JTH 2017/450-313	Main field of study: Production Systems

Intended Learning Outcomes (ILO)

After a successful course, the student shall

Knowledge and understanding

- show familiarity with the management and control of technical maintenance
- show familiarity with the management and control of quality
- display knowledge of the difficulties and limitations in decision making and shop floor control
- display knowledge of the role of people in a production system from a production management perspective
- display knowledge of different forms of remuneration and its consequences

Skills and abilities

- demonstrate skills of evaluating and measuring the production activities at different organizational levels from individual to full production

Judgement and approach

- demonstrate the ability to evaluate the operations of a production system

Contents

The course addresses the organization, management and operation of industrial production. 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 elements:

- Applied shop floor control
- Information flows
- Decision-making
- Employee compensation
- Evaluation of production performance and productivity
- Work measurement (computer based tools)

- Simulation techniques
- Total productive maintenance
- Quality management

Type of instruction

Lectures, seminars, laboratory work and exercises

The teaching is conducted in English.

Prerequisites

Passed courses at least 90 credits within the major subject Mechanical Engineering, Industrial Engineering and Management or Civil Engineering, and 21 credits Mathematics, and completed courses Production Development I, Strategy and system, 7,5 credits, Production Development II, Methods and Tools, 7,5 credits. Proof of English proficiency is required (or the equivalent).

Examination and grades

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

The final grade for the course is based on seminars and examination. The final grade will only be issued after satisfactory completion of all assessments.

Registration of examination:

Name of the Test	Value	Grading
Examination	2 credits	5/4/3/U
Seminars	4 credits	5/4/3/U
Laboratory Work	1.5 credits	U/G

Course literature

The literature list for the course will be provided one month before the course starts.