



## Course syllabus

Faculty of Technology

Department of Mechanical Engineering

2MT005 Lean Production, 7,5 högskolepoäng

Lean Production, 7.5 credits

### **Main field of study**

Mechanical Engineering

### **Subject Group**

Mechanical Engineering

### **Level of classification**

First Level

### **Progression**

G2F

### **Date of Ratification**

Approved 2013-03-12

Revised 2017-10-17 by Faculty of Technology. Review of literature

The course syllabus is valid from autumn semester 2017

### **Prerequisites**

60 credits in the subject Mechanical Engineering including Production Technology, 7.5 hp, Quality Management, 7.5 credits, Engineering Economics, 7.5 hp and Industrial Organization, 7.5 hp or similar shall be included.

## Objectives

After completing the course the student will:

- Understand the approach of the development of lean production concept
- Able to apply the techniques needed to establish a Lean Culture
- Understand the difficulties and possibilities of introduction of new working

## Content

- Principles of Lean
- The methods and tool box of Lean, deepening
- The role of management, Policy Deployment
- Organization and roles change
- Coaching and improvement cycles.
- TWI, Training Within industry

## Type of Instruction

The course consists of lectures and laboratory exercises. Some elements are mandatory. The scope of the compulsory elements given at the beginning of the course.

## Examination

#### **EVALUATION**

The course is assessed with the grades U, 3, 4 or 5.

The student's knowledge is assessed by written assignments and exams.

#### **Course Evaluation**

A course evaluation will be carried out and compiled after the course is completed. The compilation will be presented to the current board as well as to the students and filed by the coordinating department.

#### **Required Reading and Additional Study Material**

##### **Required Reading**

Joakim Bjurström, Bortom Lean, 12 steg för verksamhet i världsklass, 2016, ISBN: 978-91-87905-47-6

Mike Rother & John Shook, Lean Forum, Lära sig se, ISBN: 978-91-974-1361-9

Pascal Dennis, Lean Production Simplified, second eller third edition, ISBN: 978-1-56327-356-8