



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 2018-08-14 by Faculty of Technology. Review of prerequisites.

The course syllabus is valid from autumn semester 2019

Prerequisites

60 credits in the subject Mechanical Engineering including Production Technology, 7.5 hp, Quality Management, 7.5 credits, Engineering Economics, 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

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously.

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