

Project Course Advanced - Manufacturing Engineering

Programme course

12 credits

Projektkurs avancerad - Industriell produktion

TMPM08

Valid from: 2017 Spring semester

Determined by

Board of Studies for Mechanical
Engineering and Design

Date determined

2017-01-25

Main field of study

Mechanical Engineering

Course level

Second cycle

Advancement level

A1X

Course offered for

- Industrial Engineering and Management, M Sc in Engineering
- Industrial Engineering and Management - International, M Sc in Engineering
- Mechanical Engineering, Master's programme
- Mechanical Engineering, M Sc in Engineering

Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Prerequisites

The project requires knowledge from the first three years in a Mechanical Engineering program.

Intended learning outcomes

This course is aimed at applying skills from previous courses in manufacturing engineering in a manufacturing development project. After the course the student should

- be able to apply concept generation and concept selection in a realistic manufacturing project.
- be able apply modelling of manufacturing
- be able to do a project plan for a manufacturing project
- have experience from working in a team with manufacturing development project

Course content

The course is based on projects that could be from industry or a relevant in-house project. The project contains concept generation and concept selection, modelling of manufacturing system and/or equipment in the different phases, project planning. To a varying degree, students will work with modelling, simulation and other analysis techniques. The course also contains some lectures on project specific technology.

Teaching and working methods

The course is carried as a project with regular meetings. In addition there are lectures in project specific technology.
The course runs over the entire autumn semester.

Examination

PRA1	Project work	12 credits	U, 3, 4, 5
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A written report or scientific article and an oral presentation

Grades

Four-grade scale, LiU, U, 3, 4, 5

Department

Institutionen för ekonomisk och industriell utveckling

Director of Studies or equivalent

Mats Björkman

Examiner

Olika examinatorer beroende på projekt

Course website and other links

Education components

Preliminary scheduled hours: 0 h

Recommended self-study hours: 320 h

Course literature

Beroende på projektets art.

Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.