Project Course Advanced - Applied Mechanics

Programme course

12 credits

Projektkurs avancerad - Tillämpad mekanik

TMPM07

Valid from: 2017 Spring semester

Determined by
Board of Studies for Mechanical Engineering and Design

Date determined
2017-01-25

Offered for the last time
Autumn semester 2022

Replaced by
TMPM10

Main field of study
Mechanical Engineering

Course level
Second cycle

Advancement level
A1X

Course offered for
- 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 in applied thermodynamics and fluid dynamics, solid mechanics or engineering materials.

Intended learning outcomes
This course is aimed at applying skills from previous courses in applied thermodynamics and fluid dynamics, solid mechanics or engineering materials in a product development/computational project. After the course the student should

- be able to apply concept generation and concept selection in a realistic project.
- be able apply modelling of product/system properties in the concept phase
- be able to do a project plan
- have experience fom working in a team with product development.

Course content
The course is based on a project that could be from industry or a relevant in-house project. The project contains concept generation and concept selection, modelling of product/system properties in the concept phase and project planning. The project includes writing of a report and presentations of the project at the university and/or at the industry partner.

Teaching and working methods

The course is carried as a project with regular meetings. In addition there are lectures in project specific technology. The result from the project is a design of product, a physical demonstrator a written report.
The course runs over the entire autumn semester.

Examination

PRA1	Project work	12 credits	U, 3, 4, 5

Grades

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

Department

Institutionen för ekonomisk och industriell utveckling

Director of Studies or equivalent

Olika studierektorer beroende på projekt

Examiner

Olika examinatorer beroende på projekt

Course website and other links

Education components

Preliminary scheduled hours: 0 h
Recommended self-study hours: 320 h

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://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.