

Prototype Realization - Project Course

Programme course

6 credits

Prototype Realization - Project Course

TMAL07

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

- 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 course is a direct continuation of TMAL Aircraft Conceptual design - project which is thus required..

Intended learning outcomes

The course aims to consolidate the knowledge in aeronautics through the realization of a functional prototype to demonstrate the critical features in an aircraft concept. After completing the course the student will:

- be able to translate a concept study in a relevant demonstrator.
- be able to do a project plan
- have experience from 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. Identification of the critical features to be demonstrated in the prototype, instrumentation, control systems, design of functional prototype, construction of the prototype. Flying the prototype. 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 result from the project is a design of product, a physical demonstrator a written report.

Examination

PRA1	Project work	6 credits	U, 3, 4, 5
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Grades

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

Department

Institutionen för ekonomisk och industriell utveckling

Director of Studies or equivalent

Peter Hallberg

Examiner

Patrick Berry

Course website and other links

Education components

Preliminary scheduled hours: 48 h

Recommended self-study hours: 112 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://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.