Aircraft Structures - Project Course

Programme course

6 credits

Aircraft Structures - Project Course

TMHL26

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 work requires knowledge in Mechanics, Solid mechanics, Engineering materials and Machine components. Knowledge in Flight mechanics is preferred, but not necessary.

Intended learning outcomes
This course is aimed at developing skills for product development and/or computational analysis relevant to aircraft structures. Previously acquired skills are consolidated when applied to problems of interest to the aircraft industry. After the course the student should:

- be able to apply previously acquired skills in the mechanics of structures to integrated problems with relevance to the aircraft industry.
- have consolidated their knowledge in engineering science.
- be able to formulate, implement and update a project plan.
- have experience from working in a team with product development related to aircraft design.

Course content
The course is based on a project that is inspired by a real problem in the aircraft industry. The students work with modelling, design and analysis of aircraft structures. There are also activities in project-specific technology.

Teaching and working methods

The course is carried out as a project with regular project meetings. The result from the project is a written report and an oral presentation.

Examination

PRA1	Project Work	6 credits	U, G

Grades are given as ’Fail’ or ’Pass’.

Grades

Two-grade scale, U, G

Department

Institutionen för ekonomisk och industriell utveckling

Director of Studies or equivalent

Peter Schmidt

Examiner

Stefan Lindström

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