

**SYLLABUS**

# **Aircraft Structures 7.5 credits M7022T**

**Flygplanshållfasthet**

**Course syllabus admitted: Autumn 2014 Sp 1 - Spring 2019 Sp 4**

**DECISION DATE  
2014-02-14**

# Aircraft Structures 7.5 credits M7022T

## Flygplanshållfasthet

### Second cycle, M7022T

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Hållfasthetslära	Mechanical Engineering

## Entry requirements

A technical university basic course in strength of materials, solid mechanics or continuum mechanics, e.g.M0011T or F0030T at LTU.

## Selection

The selection is based on 30-285 credits

## Examiner

Hans-Åke Häggblad

## Course Aim

The student shall be able to:

- improve understanding of how to simplify and analyse two-dimensional structures
- understand stress analysis of aircraft structures, such as fuselages and wings

## Contents

-Energymethods  
-Two-dimensional structures  
-Buckling  
-Bending, shear and torsion of open and closed thin-walled section beams  
-Applications to aircraft components

## Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.  
Lectures and tutorials.

## Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.  
Written exam at the end of the course.

## Overlap

The course M7022T is equal to M0016T, MAM219

## Literature. Valid from Spring 2012 Sp 3

Aircraft Structures for Engineering Students  
T.H.G. Megson  
Butterworth-Heinemann; 4rd edition 2007  
ISBN : 9780750667395

## Course offered by

Department of Engineering Sciences and Mathematics

## Items/credits

Number	Type	Credits	Grade
0001	Written exam	7.5	G U 3 4 5

## Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

## Last revised

by Mats Näsström 2014-02-14

## Syllabus established

by Department of Engineering Sciences and Mathematics 2011-02-07