



Course syllabus

# Projekt i hållfasthetslära Project in Solid Mechanics

FHLN35, 7,5 credits, A (Second Cycle)

Valid for: 2023/24 Faculty: Faculty of Engineering, LTH Decided by: PLED M Date of Decision: 2023-04-11

## **General Information**

**Elective for:** F4, M4, MD4, Pi4 **Language of instruction:** The course will be given in English on demand

## Aim

The course aims to help the student get a deeper understanding of an area of importance in solid mechanics.

## Learning outcomes

*Knowledge and understanding* For a passing grade the student must

• obtain the necessary knowledge about the chosen subject from literature (books, journal articles etc).

*Competences and skills* For a passing grade the student must

- show the ability to locate relevant information from literature
- show the ability to plan and perform the practical tasks in the project
- write a report
- give an oral presentation of the work

### Judgement and approach

For a passing grade the student must

• show the ability to (with some help) choose appropriate methods (theoretical and experimental) to solve the given problem

• be able to critically assess the results obtained

### Contents

The study can be experimental, theoretical or both.

### **Examination details**

**Grading scale:** UG - (U,G) - (Fail, Pass) **Assessment:** A written report and an oral presentation of the work.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

## Admission

#### Admission requirements:

- An introductory course in Solid Mechanics plus at least one advanced- level course within the field
- FHL013 Solid Mechanics, Basic Course or FHL105 Solid Mechanics, Basic Course or FHLA01 Solid Mechanics, Basic Course or FHLA10 Solid Mechanics, Basic Course or FHLF15 Solid Mechanics, Basic Course

#### The number of participants is limited to: No

The course might be cancelled: If the number of applicants is less than 5.

## **Reading list**

• Depends on the problem to be solved. To be identified after consultations between the examiner and the student.

## **Contact and other information**

**Course coordinator:** Håkan Hallberg, hakan.hallberg@solid.lth.se **Course homepage:** http://www.solid.lth.se