



**LUNDS UNIVERSITET**  
Lunds Tekniska Högskola

*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 FHLLF15 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>