



LUNDS UNIVERSITET
Lunds Tekniska Högskola

Course syllabus

Projekt i tillämpad matematik **Project in Applied Mathematics**

FMAN40, 3 credits, A (Second Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED F/Pi

Date of Decision: 2023-04-18

General Information

Elective for: BME4, C4, D4-bg, E4, F4, Pi4-fm

Language of instruction: The course will be given in English on demand

Aim

The aim of the course is to give the engineering student who is interested in mathematics the opportunity to independently extend his or her knowledge of mathematics as well as to give practice in written and oral communication.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

be able to account for the mathematics within the chosen project in detail.

Competences and skills

For a passing grade the student must

- be able to reasonably independently, through literature study, acquire new mathematical knowledge at a level corresponding to advanced courses at LTH.
- be able to account for the results of a mathematical study through a written report.

Contents

A continuation in the form of a small project of for example one of courses in applied mathematics, for example Computer Vision, Image Analysis or Medical Image Analysis.

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)

Assessment: Approved project report and oral presentation, singly or in pair. Acting as opponent on another report.

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:

- Participation in one of the courses FMAN20, FMAN25, FMAN55 or FMAN95.

Assumed prior knowledge: Depending on the choice of subject.

The number of participants is limited to: No

The course overlaps following course/s: FMA175, FMA272

Reading list

- Depending on the subject of the project. Will be provided by the department, possibly as a loan.

Contact and other information

Course coordinator: Studierektor Anders Holst, Studierektor@math.lth.se

Course homepage: <https://canvas.education.lu.se/courses/20369>