Course syllabus

Project in Mathematics
Projekt i matematik

FMAN35, 3.0 credits, A (Second Cycle)

Valid for: 2025/26
Faculty: Faculty of Engineering LTH
Decided by: PLED F/Pi
Date of Decision: 2025-04-10
Effective: 2025-05-05

General Information

Depth of study relative to the degree requirements: Second cycle, in-depth level of the course cannot be classified
Elective for: D4, E4, F4, F4-mtm, Pi4
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 one of the advanced courses in mathematics, for example FMAN55 Applied Mathematics, FMAN70 Matrix Theory or FMAN15 Nonlinear Dynamical Systems.

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.

Modules
Code: 0115. **Name:** Project in Mathematics.
Credits: 3.0. **Grading scale:** UG - (U, G).

Admission

Admission requirements:

- Participation in one of the courses FMAN15, FMAN25, FMAN55, FMAN70 or FMAN71.

Assumed prior knowledge: Depending on the choice of subject.
The number of participants is limited to: No
Kursen överlappar följande kurser: FMA125 FMA145 FMA023

Reading list

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

Contact

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Course homepage: https://canvas.education.lu.se/courses/20387