Applied Mathematics 7.5 credits M7018M

Tillämpad matematik

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2021-02-17

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Applied Mathematics 7.5 credits M7018M

Tillämpad matematik

Second cycle, M7018M

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Matematik	Mathematics

Entry requirements

The courses M0032M Functions of Several Variables and Computer Tools, M0018M Linear Analysis and M0014M Mathematical Physics, or equivalent courses.

Selection

The selection is based on 30-285 credits

Course Aim

After the course, the student has got an overwiev and introduction to some important topics in applied mathematics, and also got some deeper insight to some selected parts.

Contents

Presentation of models and exampels and introductions to the following topics: Dimension analysis and scaling, pertubation methods, Calculus of variations, Partial differential equation models. Integral equations and Green's Functions, Wave phenomena.

Realization

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

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 examination and laborations

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

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Overlap

The course M7018M is equal to MAM207

3525

Course offered by

Department of Engineering Sciences and Mathematics

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0002	Laboratory work	U G#	1.5	Mandatory	A07	
0003	Writen exam	G U 3 4 5	6	Mandatory	A21	

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 Head Faculty Programme Director Niklas Lehto 2021-02-17

Syllabus established

Kursplanen är fastställd av institutionen för matematik att gälla från H07

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