

# The Language of Mathematics

Programme course

4 credits

Matematisk kommunikation

TSIT04

Valid from: 2017 Spring semester

**Determined by**

Board of Studies for Electrical  
Engineering, Physics and Mathematics

**Date determined**

2017-01-25

## Main field of study

Mathematics, Applied Mathematics

## Course level

First cycle

## Advancement level

G1X

## Course offered for

- Applied Physics and Electrical Engineering, M Sc in Engineering
- Mathematics, Bachelor´s Programme
- Applied Physics and Electrical Engineering - International, M Sc in Engineering

## Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

## Prerequisites

Foundation Course in Mathematics, Calculus in One Variable 1 and 2 and Linear algebra (or equivalent).

## Intended learning outcomes

For the student to obtain

- an increased awareness and understanding of mathematical reasoning
- a deeper insight into mathematical theoretical structures
- a better ability to present mathematical reasoning, in speech as well as in writing.

## Course content

Mathematical theory and its structure, in connection to mathematical analysis and linear algebra. Presentation of mathematics.

## Teaching and working methods

The teaching will be done in discussion seminars.  
The course runs over the entire spring semester.

## Examination

UPG1 Oral presentations and written hand-ins 4 credits U, G

Grades are given as 'Fail' or 'Pass'.

## Grades

Two-grade scale, U, G

## Department

Institutionen för systemteknik

## Director of Studies or equivalent

Klas Nordberg

## Examiner

Jan-Åke Larsson

## Education components

Preliminary scheduled hours: 34 h

Recommended self-study hours: 73 h

## Course literature

### Additional literature

### Other

The course literature of TATA24, TATA41, TATA42 and TATA43. Hand-outs.

## Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at [http://stydokument.liu.se/Regelsamling/Innehall/Utbildning\\_pa\\_grund-\\_och\\_avancerad\\_niva](http://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva).