

**SYLLABUS**

# **Experimental methods 7.5 credits F0033T**

**Experimentella metoder**

**Course syllabus admitted: Autumn 2023 Sp 1 - Present**

**DECISION DATE  
2021-02-17**

# Experimental methods 7.5 credits F0033T

## Experimentella metoder

### First cycle, F0033T

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G#	Experimentell mekanik	Engineering Physics

## Main field of study

Energy Engineering

## Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and Basic courses in physics, basic course in electrical engineering and solid mechanics.

## Selection

The selection is based on 1-165 credits.

## Course Aim

The student should learn about techniques for the measurement of mechanical and thermal properties, and to increase skill in experimental work, report writing and oral presentation.

## Contents

General about measuring techniques and error analysis. Measurement of properties like displacement, velocity, acceleration, force, strain, temperature, humidity, flow rate and pressure. Acquisition, analysis and presentation of measuring data.

## Realization

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

Lectures, laboratory work and demonstrations in research laboratories. Project work in co-operation with research divisions and other courses.

## 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. Approved exercises and written reports.

## 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.

## Overlap

The course F0033T is equal to MTM122

## Course offered by

Department of Engineering Sciences and Mathematics

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Laboratory work	U G#	7.5	Mandatory	A07	

## 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

The syllabus was established by the Department of Applied Physics and Mechanical Engineering 2007-02-28, and remains valid from autumn 2007.