

**SYLLABUS**

# **Audio electronics 1 7.5 credits S0013F**

**Ljudelektronik 1**

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

**DECISION DATE  
2023-02-15**

# Audio electronics 1 7.5 credits S0013F

## Ljudelektronik 1

### First cycle, S0013F

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G#	Ljudteknik	Media Production

### Main field of study

Audio Technology

## 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

## Selection

The selection is based on final school grades or Swedish Scholastic Aptitude Test.

## Course Aim

After the course the student should be able to:

- identify the function of analog audio equipment through the interpretation of simple block and circuit diagrams
- dimension simple amplifier and filter
- understand the causes of disturbances in certain given situations and be able to remedy these
- make measurements of physical quality parameters in the sound system and interpret data
- apply basic soldering

## Contents

- circuit theory
- gain
- AC
- filters
- transformer
- block diagram reading
- disorders
- unbalanced and balanced systems
- measurements
- relevant mathematical calculations
- soldering

## Realization

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

## 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.

## 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.

## Remarks

Students must register for the courses themselves, or contact ETKS educational administration [eduetks@ltu.se](mailto:eduetks@ltu.se), not later than three days after the quarter commences. Failure to do so can result in the place being lost. This rule also applies to students with a guaranteed place.

## Overlap

The course S0013F is equal to MUL091

## Course offered by

Department of Social Sciences, Technology and Arts

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Written exam	U G#	6	Mandatory	A07	
0002	Laboratory work	U G#	1.5	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 Director of Undergraduate Studies Daniel Örtqvist, Department of Business Administration, Technology and Social Sciences 2023-02-15

## Syllabus established

Institutionen för musik och medier 2007-03-01