

COURSE DETAIL

SYSTEMS AND SIGNALS

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Electrical Engineering Computer Science

UCEAP Course Number

108

UCEAP Course Suffix**UCEAP Official Title**

SYSTEMS AND SIGNALS

UCEAP Transcript Title

SYSTEMS AND SIGNALS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

The course deals with time discrete signals and systems. Items such as the Fourier Transform, the Discrete Fourier Transform (DFT) and the z-transformed are treated in the course as well as some basic structures for implementation of digital filters. Also, system function and frequency functions are introduced as well as digital filters. Digital processing of analogue signals using A/D and D/A conversion is studied. In the laboratory work, practical applications of digital signal processing such as speech signals processing and biomedical signals processing are treated. Also, the course includes basic filter design using Matlab and digital signal processors (DSP).

Language(s) of Instruction

English

Host Institution Course Number

EITF75

Host Institution Course Title

SYSTEMS AND SIGNALS

Host Institution Course Details

https://kurser.lth.se/kursplaner/25_26-en/EITF75.html

Host Institution Campus

Lund

Host Institution Faculty

Engineering

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

[Print](#)