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

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