Course: Continuous Time Signal Processing — credits: 4

Course code	ELVH19ACTSP
Name	Continuous Time Signal Processing
Study year	2022-2023
ECTS credits	4
Language	English
Coordinator	B.D. Williams
Modes of delivery	Lecture Practical / Training
Assessments	Continuous Time Signal Processing - Written, organised by STAD examinations

Learning outcomes

- The student can calculate the frequency response of an LTI system.
- The student can calculate and sketch the magnitude and phase of the frequency response of an LTI system, and recognise the most fundamental meanings of these characteristics.
- The student can perform a frequency analysis of a signal by use of the correct form of the Fourier Transform in combination with standard characteristics and tables of the Fourier transform.
- The student can apply Fourier analysis to calculate the impact of sampling and windowing on spectra.
- The student can apply convolution and multiplication properties of FT theory to filtering, modulation and sampling of a continuous time series.

Content

During this study unit you will have tutorials and theory. For the theory you will get some homework assignments. If you do these assignments correctly, you have the possibility to earn a higher grade on your written exam.

Included in programme(s)

Exchange Technology to Innovate (autumn)
Electrical Engineering Major Sensor Technology
Minor Technology to Innovate

School(s)

Institute of Engineering

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