Vak: Continuous Time Signal Processing — credits: 4

Vakcode	ELVH19ACTSP
Naam	Continuous Time Signal Processing
Studiejaar	2022-2023
ECTS credits	4
Taal	Engels
Coördinator	B.D. Williams
Werkvormen	Hoorcollege Practicum / Training
Toetsen	Continuous Time Signal Processing - Schriftelijk, organisatie ToetsCentrum

Leeruitkomsten

The student can:

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

Inhoud

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.

Opgenomen in opleiding(en)

Exchange Technology to Innovate (autumn)
Elektrotechniek Major Sensor Technology
Minor Technology to Innovate

School(s)

Instituut voor Engineering

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