

Vak: Data Communication

credits: 5

Vakcode ELVH17ADC
Naam Data Communication
Studiejaar 2021-2022
ECTS credits 5
Taal Engels
Coördinator G.J. Geertsma

Werkvormen Hoorcollege
Opdracht
Practicum / Training
Toetsen Data Communication - Schriftelijk,
organisatie ToetsCentrum

Leeruitkomsten

The student:

- applies standard hardware protocols in basic systems (e.g. I2C, SPI, Serial, RS-232);
- implements a signal conditioning system for a communication bus (signal format, signal integrity, signal/noise ratio), taking into account the demands for EMC;
- uses the most important protocols (e.g. HTTP, TCP, UDP, WIFI) in a simple communication system;
- defends choices for network topologies and routing mechanisms in a large network;
- designs a basic telecommunication system and explains the important building blocks.

Inhoud

In this course you will learn all about communication from one system to the other. You will learn about internet protocols and algorithms but also about how to setup a network of devices. Being able to connecting systems and send the information from one platform to the other is vital to the success of an application. You will learn about connecting sensors with the most used protocols and make your own communication bus to transfer information. While making this own communication bus you will learn about the integrity of a signal and in what format it should be.

Opgenomen in opleiding(en)

Elektrotechniek Major Sensor Technology

School(s)

Instituut voor Engineering

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