Hanze

Minor

Toegekend diploma
-

Programmaduur
6 maanden

ECTS credits
30

Niveau eindkwalificatie
Bachelor

Vorm
Voltijd

Taal
Engels

School
Instituut voor Engineering

Locaties
Assen

Minor Internet of Things

Programmabeschrijving

This minor is offered in semester 1 (starting September)
In this programme, we will discuss the whole IoT architecture. An IoT overview is given and various components of IoT are discussed, eg. Edge computing, IoT Hub and Artificial Intelligence (IA). Besides the technical aspects, human aspects, ethics and privacy are taken into account. There is also an IoT project in cooperation with small and medium sized enterprises and research centres.

During the programme, we use the IoT components of Microsoft Azure

Leeruitkomsten

At the end of the programme students:

- have an overview of the architecture of an IoT system;
- can apply edge computing to process sensor output and actuator input;
- can connect an edge computer to the cloud;
- can store data from the edge computers into cloud databases;
- can apply Artificial Intelligence (AI) techniques to the data;
- can implement security standards in an IoT environment;
- can apply the architecture of an IOT system in a project;
- can take ethics and privacy into consideration in the IoT system development.

Programma

Minor Internet of Things	**credits**
IoT	26
▯ ELVH19IPRJ - Project Internet of Things	*10*
▯ ELVH20IIOT - Internet of Things Fundamentals	*5*
▯ ELVH19IDC - Data Connectivity	*4*
▯ ELVH22IAI - Artificial Intelligence	*5*
▯ ELVH19IDSP - Digital Signal Processing	*2*
IoT keuze	4
keuze uit onderstaande vakken	
▯ ELVH20IICT - Introduction to Information Communication Technology	*4*
▯ ELVH20IEE - Introduction to Electrical Engineering	*4*

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