Hanze

Minor

Toegekend diploma
-

Programmaduur
6 maanden

ECTS credits
30

Niveau eindkwalificatie
Bachelor

Vorm
Voltijd

Taal
Engels

School
Instituut voor Engineering

Locaties
Groningen

Minor Sensors and Smart Systems

Programmabeschrijving

This minor is offered in semester 1, starting September

This programme focuses on the engineering of smart systems. This is where sensors (data acquisition), (embedded) data processing (Edge computing), networking, cloud storage, AI and security meet. Students discover all these different aspects that come into play when designing and realizing a smart system. This programme offering students in-depth knowledge through courses, guest lectures, excursions, and both theoretical and practical assignments.

Leeruitkomsten

Students will obtain comprehensive knowledge of sensor technologies, data processing, AI integration, mathematical foundations, and the Internet of Things, all in an intensive and practical format. It will include:

- Knowledge of sensor types and ensuring reliable data for making 'smart' decisions.
- Processing data at the source using embedded systems and integrating data from other systems via the Internet of Things.
- Using AI algorithms to analyse cloud-collected data, improving system decision-making.
- Acquiring mathematical skills essential for data analysis.

Programma

Minor Sensors and Smart Systems	**credits**
Sensors and Smart Systems	30
ELVB25AIN - Artificial Intelligence	*5*
ELVB25IOT - Internet of Things	*5*
ELVB25MSS - Mathematics for Smart Systems	*5*
ELVB25USD - Uncertainty in Sensor Data	*5*
ELVB25EMS - Embedded Systems	*5*
ELVB25ASA - Advanced Sensor Applications	*5*

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