Course: Internet of Things Fundamentals — credits: 5

Course code	ELVH20IIOT
Name	Internet of Things Fundamentals
Study year	2022-2023
ECTS credits	5
Language	English
Coordinator	P.J. Kamphuis
Modes of delivery	Education
Assessments	Internet of Things Fundamentals - Assignment

Learning outcomes

- The student has an overview of an Internet of Things (IoT) architecture
- The student can state in which cases an IoT system can be implemented
- The student can describe the different components of an IoT system
- The student can use the components of an IoT system
- The student has a thorough understanding of standard protocols used in Internet of Things (IoT) Core system
- The student can choose and setup the different components of an IoT Core system

Content

In this course the basics of an IoT system will be addressed.

- Introduction of a Microsoft IoT system Architecture
- Example of an IoT system based on Microsoft (Edge computer, IoT hub, streams, database, AI)
- IAAS, PAAS and SAAS
- Using Microsoft IoT system SDK
- Storing data in no-SQL databases
- Realise software for IoT Edge computer and IoT hub

Included in programme(s)

Minor Internet of Things
Exchange Internet of Things (autumn)

School(s)

Institute of Engineering

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