

Course: Internet of Things Fundamentals

credits: 5

Course code ELVH20AIOT
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)

Electrical Engineering Major Sensor Technology

School(s)

Institute of Engineering

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