

Course: Embedded Systems

ELVH20AEMB Embedded Systems 2022-2023 5 English P.J. Kamphuis Modes of delivery

Assignment Individual supervision Lecture Practical / Training

Assessments

Practical / Training Embedded Systems - Assignment

Learning outcomes

The student understands the basics of a microcontroller in an Embedded setting:

- Design principals of an Embedded systems in Flow Charts
- GPIO read and write
- Serial communication
- Analog communication
- Project to apply and integrate these techniques
- Show the output data on a platform

Included in programme(s)

Exchange Technology to Innovate (autumn) Electrical Engineering Major Sensor Technology Minor Technology to Innovate

Content

This course will take the ESP32 microcontroller as an example For serial communication I2C or SPI will be discussed Analog communication DAC (write) and ADC (read) Project Solar Power meter with temperature compensation Show the real-time output data on a output page

School(s)

Institute of Engineering

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credits: 5