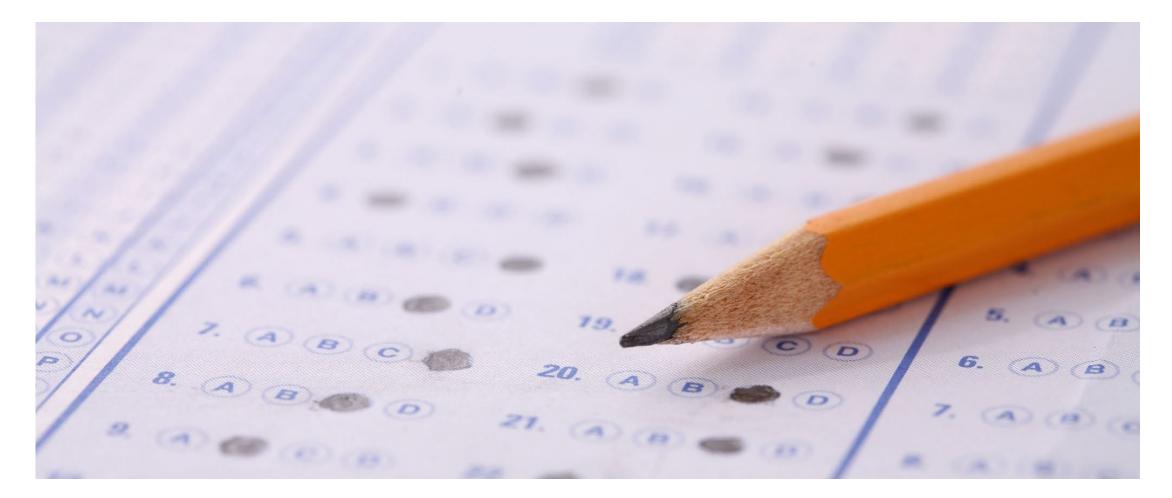
Practical assignment content





Learning outcome

- Understand the working principle of a Water quality IoT sensor
 - pH
 - Conductivity
 - Oxidation reduction potential
 - Turbidity

• Different ways of extracting data from online sensor

• Learn how to send data to a cloud



Necessary infrastructures

Hardware

- PC/ Laptop
- Access to WiFi

Software

• MS Word or Latex



Task 1 - Describe the features of WQ sensor

• Choose a water-quality sensor from the list describe

- What is the measuring principle?
- What are the different sensor types and how are they used in water sector?

• state-of-the-art in the sensor you choose



Task 2 - Extracting data

- Describe the following
 - Which parameters are measured by the sensor you chose for the assignment

• How do you extract data from these sensors?

Advantages and disadvantages of different data extraction method



Task 3 – Implementing data filter

- Describe and discuss
 - Different methods to send data to a cloud
 - Benefits of sending data to the cloud



Deliverables

• A 2000-3000 word report on

- Features and working principles of one of the WQ sensor
- Extracting data from the WQ sensor
- Sending data to the WQ sensor

