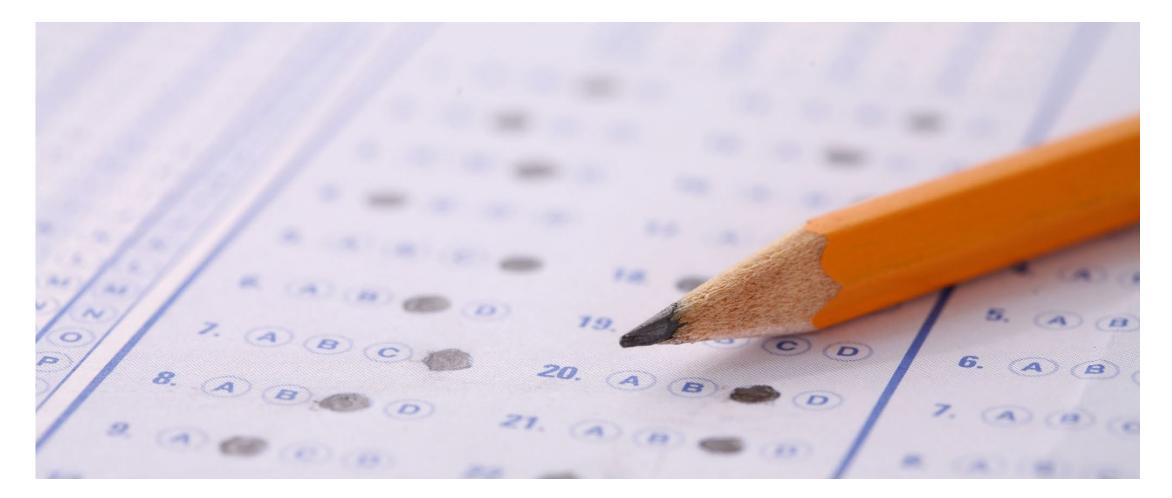
### Practical assignment content





### 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

