

# PROJECT OBJECTIVES

## **Topic:** Real-Time River Water Quality Monitoring and Control System

The objectives as,

- River water quality can be monitored by the web application.
- Can be able to know if there are any dust particles present in the water.
- The PH level of the water can be monitored.
- Water temperature can be monitored.
- . Alerting the authorities if the water quality is not good so that they can go
- Announce the localities not to drink that water.

### **Project Flow:**

- Sending random pH values and turbidity values will be sent to the IBM IoT platform
- Sensors values can be viewed in the Web Application
- Notifies the admin the random values cross the threshold value

To accomplish this, we have to complete all the activities and tasks listed below:

- Create and configure IBM Cloud Services
  - Create IBM Watson IoT Platform
  - Create a device & configure the IBM IoT Platform
  - Create Node-RED service
  - Create a database in Cloudant DB to store location data
- Develop a web Application using Node-RED Service.
  - Develop the web application using Node-RED
- Develop a python script to publish the location details to the IBM IoT platform