

PROJECT	REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
TEAM ID	PNT2022TMID46026
DATE	16 OCTOBER 2022
MARKS	4 MARKS

MILESTONES	TASKS	NAME OF THE STUDENTS WHO DONE THE TASK
<ul style="list-style-type: none"> • Pre-requisites • Project Objective 	<ol style="list-style-type: none"> 1. IBM Cloud services 2. Software 	Dhelipan raj, Dhilipkumar, Abdul fazil, Koushik karan Dhelipan raj, Dhilipkumar, Abdul fazil, Koushik karan
<ul style="list-style-type: none"> • Create And Configure IBM Cloud Services 	<ol style="list-style-type: none"> 1. Create IBM Watson IOT Platform and Device 2. Create Node-RED Service 	Dhelipan raj, Dhilipkumar
<ul style="list-style-type: none"> • Develop the python Scrip 	<ol style="list-style-type: none"> 1. Develop a python Scrip 2. Publish Data to the IBM Cloud 	Dhelipan raj, Dhilipkumar, Abdul fazil, Koushik karan

<ul style="list-style-type: none"> • Develop A web Application Using NodeRED Service 	<ol style="list-style-type: none"> 1. Develop the Web Application Using NodeRED 2. Use Dashboard Nodes for Creating UI(Web App) 3. Create an HTTP requests to Communicate with Mobile App 	<p>Dhelipan raj, Dhilipkumar, Abdul fazil</p>
<ul style="list-style-type: none"> • Building Mobile App 	<ol style="list-style-type: none"> 1. Design Your UI To Display the Water Turbidity,PH Values 2. Configure the Application To Receive the Data From Cloud 3. Configure the Mobile App For Controlling Motor using Buttons 	<p>Dhelipan raj, Dhilipkumar, Abdul fazil, Koushik karan</p>
<ul style="list-style-type: none"> • Ideation Phase 	<ol style="list-style-type: none"> 1. Literature Survey on the Selected Project & Information Gathering 2. Prepare Empathy Map 3. Ideation 	<p>Dhelipan raj, Dhilipkumar, Abdul fazil, Koushik karan</p>

<ul style="list-style-type: none"> • Project Design Phase-I 	<ol style="list-style-type: none"> 1. Proposed Solution 2. Prepare Solution Fit 3. Solution Architecture 	Dhelipan raj, Dhilipkumar, Abdul fazil, Koushik karan
<ul style="list-style-type: none"> • Project Design Phase-II 	<ol style="list-style-type: none"> 1. Customer Journey 2. Functional Requirement 3. Data Flow Diagram 4. Technology Architecture 	Dhelipan raj, Dhilipkumar, Abdul fazil, Koushik karan
<ul style="list-style-type: none"> • Project Planning Phase 	<ol style="list-style-type: none"> 1. Prepare Milestone & 2. Activity List 3. Sprint Delivery Time 	Dhelipan raj, Dhilipkumar, Abdul fazil, Koushik karan
<ul style="list-style-type: none"> • Project Development Phase 	<ol style="list-style-type: none"> 1. Project Development Delivery of Sprint 1 2. Project Development Delivery of Sprint 2 3. Project Development Delivery of Sprint 3 4. Project Development Delivery of Sprint 4 	Dhelipan raj, Dhilipkumar, Abdul fazil, Koushik karan

S.No	Activity titles	Activity dispersion	Duration
<u>1</u>	Understanding the project requirement	Assign the team members and create repository in the Github, Assign the task to each members and teach how to use and open and class the Github and IBM career education .	1 week
2	starting of project	Advice students to attend classes of	1 week
		IBM portal create and develop an rough diagram based on project description and gather of information on IOT and IBM project and team leader assign task to each member of the project	
3	Attend the training sessions	Team members and team lead must watch and learn from classes provided by IBM and NALAYATHIRAN and must gain access of MIT license for their project.	4 week
4	Budget and scope of the project	Budget and analyse the use of IOT in the project and discuss with team for budget prediction to predict the favourability for the customer to buy	4 Week