PROJECT	**REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM**
TEAM ID	**PNT2022TMID31051**
DATE	**1 NOVEMBER 2022**
MARKS	**4 MARKS**

MILESTONES	TASKS	NAME OF THE STUDENTS WHO DONE THE TASK
• Pre-requisites • Project Objective	1. IBM Cloud services 2. Software	Jayashree V, Jeevitha S, Adhina P, Kalaivani A Jayashree V, Jeevitha S
• Create And Configure IBM Cloud Services	1. Create IBM Watson IOT Platform And Device 2. Create Node-RED Service	Jayashree V, Adhina P, Kalaivani A Jayashree V, Jeevitha S, Adhina P
• Develop the python Scrip	1. Develop a python Scrip 2. Publish Data to the IBM Cloud	Jayashree V, Kalaivani A Jayashree V, Kalaivani A, Adhina P

• Develop A web Application Using Node-RED Service	1. Develop the Web Application Using Node-RED 2. Use Dashboard Nodes for Creating UI(Web App) 3. Create an HTTP requests to Communicate with Mobile App	Jayashree V, Jeevitha S, Jayashree V, Jeevitha S, Kalaivani A Jayashree V, Adhina P
• Building Mobile App	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	Jayashree V, Jeevitha S Jayashree V, Jeevitha S, Adhina P Jayashree V, Jeevitha S, Kalaivani A
• Ideation Phase	1. Literature Survey on the Selected Project & Information Gathering 2. Prepare Empathy Map 3. Ideation	Jayashree V, Jeevitha S, Adhina P, Kalaivani A Jayashree V, Jeevitha S Adhina P Jayashree V, Kalaivani A
• Project Design Phase-I	1. Proposed Solution 2. Prepare Solution Fit 3. Solution Architecture	Jayashree V, Jeevitha S, Kalaivani A Jayashree V, Jeevitha S, Adhina P Jayashree V, Jeevitha S, Kalaivani A, Adhina P

• Project Design Phase-II	1. Customer Journey 2. Functional Requirement 3. Data Flow Diagram 4. Technology Architecture	Jayashree V, Adhina P Jayashree V, Jeevitha S Jayashree V, Jeevitha S, Adhina P Jayashree V, Adhina P, Kalaivani A
• Project Planning Phase	1. Prepare Milestone &Activity List 2. Sprint Delivery Time	Jayashree V, Jeevitha S, Adhina P Jayashree V, Jeevitha S
• Project Development Phase	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	Jayashree V, Kalaivani A Jayashree V, Jeevitha S, Adhina P Jayashree V, Jeevitha S Jayashree V, Adhina P, Kalaivani A

S.No	Activity titles	Activity dispersion	Duration

1	**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