



DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADAMIC YEAR 2022-2023

UG – FINAL YEAR PROJECT AAPPROVAL FORM

DATE:28/02/2023

DOMAIN NAME	IoT AND MACHINE LEARNING
PROJECT TITLE	WATER QUALITY PREDICTION SYSTEM
TEAM MEMBERS	NITISH KUAMR D P - 610519104072 NARESH KUMAR D - 610519104069 MOHAN R - 610519104063 NANDAMUDI DINESH - 610519104067
PROJECT GUIDE NAME	Ms. Radha.N AP/CSE

ABSTRACT:

This project aims to predict the quality of water using machine learning and Internet of Things. Water quality is a critical factor in determining the suitability of water for various purposes, such as drinking, agriculture, and industrial use. Traditional methods of water quality monitoring can be time-consuming, expensive, and may not provide accurate results. Therefore, this project proposes a machine learning- based approach that can predict water quality based on various factors, such as pH levels, dissolved oxygen, temperature, fecal coliform and turbidity. The project will use supervised learning algorithms such as decision trees, random forests, Extreme Gradient Boosting and support vector machines to train the model on a dataset of water quality measurements. The model will then be tested on a separate dataset to evaluate its accuracy and effectiveness. The outcome of this project could be valuable in improving water quality management and ensuring the safe and efficient use of water resources.

Signatures	Project Guide		
	Project Co-Ordinator	Approved	Not approved
	HOD		

