Main Project Proposal (IV Semester MCA)

Approval of the main project proposal is mandatory to continue and submit the project work.

The main project proposal should clearly state the project objectives and the environment of the proposed project to be undertaken.

The following documents are to be submitted for approval

1. Pro forma for approval of the main project (Present in this document)
2. Synopsis/Abstract with following contents
    i. Title of the Project.
    ii. Introduction and Objectives of the Project.
    iii. Tools / Platform, Hardware and Software Requirement
    iv. Problem Definition and Initial Requirements
    v. Basic functionalities of the project

The abstract should be submitted in the format given in the 3rd page of this document.

The Proposal in the given format shall be **uploaded as PDF in Linways** on or before **16.04.22**

MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA246 – MAIN PROJECT

PRO FORMA FOR THE APPROVAL OF THE FOURTH SEMESTER MAIN PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Main Project Proposal No : _____1_____ *(Filled by the Department)*	Academic Year : 2021- 22 Year of Admission : 2020

1. Title of the Project : Smart Water Quality Monitoring
2. Name of the Guide : Mrs Febin Aziz
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
MOHAMMED AFNAN PP	MES20MCA-2026	

Date: 16-04-2022

Approval Status : Approved / Not Approved

Signature of Committee Members

Comments of the Guide Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of the Project Coordinator Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of HOD

SMART WATER QUALITY MONITORING

Mohammed Afnan PP

Introduction: Pollution of water is one of the main threats in recent times as drinking water is getting contaminated and polluted. The polluted water can cause various diseases to humans and animals, which in turn affects the life cycle of the ecosystem. If water pollution is detected in an early stage, suitable measures can be taken and critical situations can be avoided. To make certain the supply of pure water, the quality of the water should be examined in real-time. Smart solutions for monitoring of water pollution are getting more and more significant these days with innovation in sensors, communication, and Internet of Things (IoT) technology. In this paper, a detailed review of the latest works that were implemented in the arena of smart water pollution monitoring systems is presented. The paper proposes a cost effective and efficient IoT based smart water quality monitoring system which monitors the quality parameters uninterruptedly. The developed model is tested with three water samples and the parameters are transmitted to the cloud server for further action.

Objectives: The objective of water quality monitoring is to obtain quantitative information on the physical, chemical(ph value) of water.

Problem Definition: Poor water quality has its most direct impact on aquatic wildlife, Particularly fish and plants.To determine the ph value of a drinking water.

Basic functionalities: . The Smart Water Quality meter checks the purity of portable water that the consumer receives, by measuring five qualitative parameters of water viz. pH, temperature, turbidity, dissolved oxygen and conductivity.

Tools / Platform, Hardware and Software Requirements: Describe the Operating system, Development tool, Hardware and software used etc.

Note: *Headings : Times New Roman Size 12*
Running Text : Times New Roman Size 11
Title of Project : Times New Roman Size 13
Name and No. : Times New Roman Size 12
Paper Size : A4 Sheet