

IDEATION PHASE

Team ID	PNT2022TMID21670
Project Name	Real-Time River Water Quality Monitoring and Control System
Team Member	P.Prasanna , K.Naveen Kumar, S.Nandini, B.Pradeepa Illakiya
Team Leader	S.Nandini

LITERATURE SURVEY:

TITLE	AUTHOR	CONTENTS
Real-time estimation of population exposure to PM _{2.5} using mobile- and station-based big data	B. Chen, Y. Song, T. Jiang, Z. Chen, B. Huang, and B. Xu	The proposed method in this paper can well quantify dynamics of the real-time population distribution and yield the estimation of population exposure to PM _{2.5} concentrations and cumulative inhaled PM _{2.5} masses with a 3-h updating frequency
An Interoperable IP based WSN for Smart Irrigation Systems	M. Z. Abedin, A. S. Chowdhury, M. S. Hossain, K. Andersson, and R. Karim	Functionality of IOT is applied to agriculture like smart irrigation. Analysis of the performance of 6LoWPAN protocol stack
Improved Cyanobacteria Removal from Harmful Algae Blooms by Two-Cycle, Low-Frequency, Low Density, and Short Duration Ultrasonic Radiation(29 August 2020)	Haocai Huang Gang Wu Chaowu Sheng Wu Jiannan Danhua Li Hangzhou Wan	This paper has a proposed cyanobacteria removal method based on two applications of low frequency, low density and short duration and ultra sonic radiation for calculating the effectiveness of ultrasonic radiation is done by algae removal rate/ultrasonic dosage
Smart Risk Assessment Systems using Beliefrule-based DSS and WSN Technologies	K. Andersson and M. S. Hossain	Described how a smart risk assessment system using belief-rule-based expert systems and WSN technologies could be built

The use of artificial neural networks for the prediction of water quality parameters	H. R. Maier and G. C. Dandy	Analysis gives that ANN models appear to be a useful tool for forecasting salinity in rivers
The real time monitoring of water quality in IoT environment	N. Vijayakumar and R. Ramya	The design and development of the real-time monitoring of the water quality parameters in IoT environment is presented using water quality parameter sensors, Raspberry PI B+ core controller and an IoT module (USR WIFI 232)
Design and Development of Real Time Water Quality Monitoring System	Meghana M Kiran Kumar B M Divya Kiran Ravikant Verma	This paper presents a system that is developed to measure the parameters of water such as turbidity dissolved solvents PH and temperature. The sensors are interfaced with Arduino UNO and raspberry Pi for data
Sensor based water quality monitoring system	Paul B	Causes and effects of water pollution is presented, and comprehensive review of different methods of water quality monitoring and an efficient IoT based method for water quality monitoring has been discussed.