College name: JP COLLEGE OF ENGINEERING

College code: 9512

Project ID :Proj\_211934\_Team\_1

ENVIRONMENTAL MONITORING

SYSTEM

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PROBLEM STATEMENT:

We need to take immediate measures in order to protect our environment because our environment is being affected by Air Pollution,Water Pollution,Soil Pollution and all forms of pollutants that affect our environment which in turn affect the livelihood of human in all form from ever breathing.

IMPACT OF CHEMICALS:

Air pollution by harmful chemicals that mixed on the air causes severe body health condition which leads to bigdisaster of humanhealth.

DISEASES TO HUMANS:

Water pollution create various type of new disasters to human as the most of the bacteria that lives and borns on water which is micro and sometimes invisible for the human eye produce severe cholera and many other diseases.

NUTRITION DEFICIENCY:

If soil is polluted then the plants that grows on those soil will never have the sufficient growth of human essential nutrients.it leads to insufficiency of food matters and decomposition of harmful plastic destroy the underground water and soil which is toxic.so In order of control this problem.so we select to do the project of environmental monitoring system.

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[**Order Article Reprints**](https://www.mdpi.com/1424-8220/20/11/3113/reprints)Air quality, water pollution, and radiation pollution are major factors that pose genuine challenges in the environment. Suitable monitoring is necessary so that the world can achieve sustainable growth, by maintaining a healthy society. In recent years, the environment monitoring has turned into a smart environment monitoring (SEM) system, with the advances in the internet of things (IoT) and the development of modern sensors. Under this scenario, the present manuscript aims to accomplish a critical review of noteworthy contributions and research studies on SEM, that involve monitoring of air quality, water quality, radiation pollution, and agriculture systems. The review is divided on the basis of the purposes where SEM methods are applied, and then each purpose is further analysed in terms of the sensors used, machine learning techniques involved, and classification methods used. The detailed analysis follows the extensive review which has suggested major recommendations and impacts of SEM research on the basis of discussion results and research trends analysed. The authors have critically studied how the advances in sensor technology, IoT and machine learning methods make environment monitoring a truly smart monitoring system