

A
Project Report
On
IOT BASED TRAFFIC MANAGEMENT SYSTEM
Submitted to
Department of
ELECTRONICS & COMMUNICATION ENGINEERING

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CERTIFICATE

This is to certify that the project entitled "IOT BASED TRAFFIC MANAGEMENT SYSTEM" carried out by the following students of III Year B.Tech in Electronics and Communication Engineering during the academic year 2022-23.

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ABSTRACT

The purpose of this project is to propose a smart traffic management system using the Internet of Things and a decentralized approach to optimize traffic on the roads and intelligent algorithms to manage all traffic situations more accurately. The system takes traffic density as input from cameras, which is extracted from a Digital Image Processing technique and sensors data, resulting in output as signals management. An algorithm is used to predict traffic density to minimize traffic congestion.

Sensors are used to measure the traffic density. After analyzing the sensor data, System controller sets traffic signal time by traffic management algorithm and system controller sets traffic signal time by traffic management algorithm and also sends data to a cloud server through a Wi-Fi module.

A RF based communication System is used for getting information from the emergency vehicles.



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