A

Project Report

On

### IOT BASED SMART PARKING

Submitted to

Department of

### **ELECTRONICS & COMMUNICATION ENGINEERING**

By

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**Under the Esteemed Supervision of** 

MrsM.Anitha Assistant Professor



# DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to JNTUH, Accredited by NBA)

Ananthasagar (Vill), Hasanparthy (M), Warangal.

2022-23



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## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

### **CERTIFICATE**

This is to certify that the project entitled "IOT BASED SMART PARKING" 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**

In this project we have designed for vehicle parking and the main aim of this project is to atomize the vehicle park for allowing the vehicles into the park. It can provide the exact location of the free space where the vehicles have to be parked. Here we use the microcontroller and the IR Sensors to identify the vehicles entering in to the park. LCD is provided to display the information about the total no of vehicles can be parked and the place free for parking by using Embedded C language. This can provide the exact location of the free space where the vehicles have to be parked. Whenever a car comes in front of the gate, the IR signal gets disturbed and the microcontroller will open the gate by rotating the stepper motor. The gate will be closed only after the car leaves the second IR pair since the microcontroller should know whether the car left the gate or not. Now the microcontroller decrements the value of the count and displays it on LCD. In this way, the microcontroller decrements the count whenever the car leaves the park and displays it on LCD. If the count reaches '0', i.e. if the park is completely filled, the microcontroller will display "NO SPACE FOR PARKING" on LCD.

FOR WOMEN

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