

# **IOT BASED SMART PARKING SYSTEM**

*A Project report submitted in partial fulfillment of the requirements for the award of degree of*

## **BACHELOR OF TECHNOLOGY**

**IN**

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

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**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

**(Accredited by NBA, Approved by A.I.C.T.E, Affiliated to J.N.T.U. KAKINADA)**

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**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**IOT BASED SMART PARKING SYSTEM**” in partial fulfillment for the of degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING**, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafide work carried out by R.REVATHI(14811A0459),J.CHAKRASAI(14811A0423),P.VISHWANADH(14811A0447),P.CHARMILA(14811A0450) under the guidance and supervision during 2017-2018.

  
**PROJECT GUIDE**

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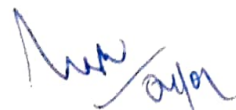
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**EXTERNAL EXAMINER**

## **ABSTRACT**

In recent times the concept of smart cities have gained grate popularity. Thanks to the evolution of Internet of things the idea of smart city now seems to be achievable. Consistent efforts are being made in the field of IOT in order to maximize the productivity and reliability of urban infrastructure. Problems such as, traffic congestion, limited car parking facilities and road safety are being addressed by IOT. In this project, we present an IOT based cloud integrated smart parking system. The proposed Smart Parking system consists of an on-site deployment of an IOT module that is used to monitor and signalize the state of availability of each single parking space. A mobile application is also provided that allows an end user to check the availability of parking space and book a parking slot accordingly. The project also describes a high-level view of the system architecture. Towards the end, the project discusses the working of the system in form of a use case that proves the correctness of the proposed model.