A
MAJOR PROJECT REPORT
ON

" IOT BASED PATIENT HEALTH MONITORING SYSTEM"

Submitted in Partial Fulfillment of the Requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

SUBMITTED BY

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CERTIFICATE

This is to certify that the project entitled **" IOT BASED PATIENT HEALTH MONITORING SYSTEM "** is a bonafide work done and submitted by

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In partial fulfillment of the requirement for the degree of B.TECH in the Department of **ELECTRONICS AND COMMUNICATION ENGINEERING** from **INDUR INSTITUTE OF ENGINEERING & TECHNOLOGY**, SIDDIPET (Affiliated to JNTU Hyderabad) during the academic year 2023-2024 is a record of bonafide work carried out under the guidance of **Mrs. P. RENUKA** Associate Professor.

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DECLARATION

I hereby declared that the work reported in the present project entitled "**IOT BASED PATIENT HEALTH MONITORING SYSTEM"** is a record of work done by me under the guidance of **Mrs. P. RENUKA Associate Professor,** Department of Electronics and Communication Engineering, Indur Institute of Engineering and Technology, Siddipet.

No part of this is copied from books/journals/internet and wherever the portion has been taken the same has been duly referred in the text. The reports are based on the project work done entirely by me and not copied from any other.

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ACKNOWLEDGEMENT

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ABSTRACT

In today's world health problems became a significant issue. Health related issues can't be controlled since they may ensue to the environmental changes, lifestyle changes or maybe heredity. So, we might get immediate help and can be rescued in time. The proposed system aims to watch the patients remotely by using IoT. This device monitors a person's heartbeat, temperature, respiration and speed of the motion and sends it to the cloud over the net with the help of Node MCU that has in-built WiFi. So, the person will be monitored anytime and anywhere around the globe.

Here the most sensors that are being employed are Heartbeat sensor to monitor the heartbeat of the patient, temperature sensor to observe the temperature and respiratory sensor to watch the breathing of the patient. The MEMS sensor is employed to detect the person's motion. These sensors are connected to the Arduino UNO as data input device and the output is shipped to the cloud platform getting used. The cloud platform being employed during this project is Thingspeak. It collects the information from the sensor and sends it to the cloud in order that the persons are often monitored remotely and if the patient has an emergency situation, the location of the patient is additionally sent to the person monitoring the patient in a message format.

KEY WORDS: IoT, Node MCU, WiFi, Heartbeat Sensor, Temperature Sensor, Respiratory Sensor, MEMS Sensor, Arduino UNO, Thingspeak.

CONTENTS

LIST OF FIGURES

CONTENTS Page No.

LIST OF TABLES

CONTENTS Page No.