**AUTOMATIC ROOM LIGHT AND FAN CONTROLLER WITH VISITOR COUNTER**

A project report submitted in partial fulfillment of the requirements for the Award of

degree of

# BACHELOR OF TECHNOLOGY

IN

# ELECTRONICS AND COMMUNICATION ENGINEERING

BY

## ADABALA SURESH 21JE1A0467

**Under the Guidance of**

**Mr.F. Mohammed Khasim M.Tech**

**Assistant professor, ECE Department**

# ESWAR COLLEGE OF ENGINEERING

## ELECTRONICS AND COMMUNICATION ENGINEERING

(Approved by AICTE, Affiliated to JNTU, Kakinada) NARASARAOPET-522601, ANDHRA PRADESH ESWAR COLLEGE OF ENGINEERING

**2024-2025**

# ESWAR COLLEGE OF ENGINEERING

(Approved by AICTE &Affiliated to JNTU, Kakinada) NARASARAOPET-522601, ANDHRA PRADESH

# CERTIFICATE

This is to certify that the project titled “AUTOMATIC ROOM LIGHT AND FAN CONTROLLER WITH VISITOR COUNTER” is Submitted by ADABALA SURESH (21JE1A0467) Students of **B. Tech (ECE),** in partial fulfillment of the requirements for the award of the degree of **Bachelor of Technology** in **ELECTRONICS AND COMMUNICATION ENGINEERING** is a record of bona fide work carried out by them under my supervision. The matter embodied in this report has not been submitted to any other University or Institution for the award of any other degree.

**Internal Guide Head of the Department**

**Mr.F.Mohammed Khasim M.Tech Dr.SK.BASHEERA M.Tech, Ph.D.**

**Assistant Professor Associate Professor & HOD**

**Submitted for Viva voice Examination held on**

# ACKNOWLEDGEMENT

I indebted to the Management for providing me an opportunity with excellent academic, infrastructural Lab facilities to carry out my U.G program successfully.

I would like to express my deepest sense of gratitude towards my Internal Guide, **Mr.F.Mohammed Khasim M.Tech** Assistant Professor in Department of **ECE** for him encouragement and valuable guidance in bringing shape to this dissertation.

I grateful to **Dr. SHAIK BASHEERA, M.Tech, Ph.D HOD** Department of Electronics & Communication Engineering, ESWAR COLLEGE OF ENGINEERING, Narasaraopeta affiliated JNTUK Kakinada Who have given for his encouragement and motivation.

I express my deep gratitude and regards to our beloved principal **Dr.G.NAGA MALLESWARA RAO**, **M.Tech, Ph.D** who have given support for the Internship or in other aspects of my studies at ESWAR COLLEGE OF ENGINEERING, Kesanupalli, Narasaraopet, and affiliated JNTU Kakinada.

## Adabala Suresh

**21JE1A0467**

**I**

# DECLARATION

I hereby declare that the Project report titled “**A REAL TIME HOME AUTHORIZATION BASED AUTOMATIC SYSTEMS USING RASPBERRY PI WITH IOT**” is bona fide work done by me, under the guidance, **Mr.F.Mohammed Khasim M.Tech** Assistant Professor, **ESWAR College of Engineering**. This report is submitted in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in ECE.

**Place:** Kesanuaplli

**Date:**

## Adabala Suresh

## 21JE1A0467

**II**

**ABSTRACT**

This project is “Automated light controller with visitor counter system” is a reliable circuit that is controlling the room lights with count the number of visitors or persons in the room. When someone enters into the room counter will be incremented and the light in the room will be switched ON and when any one leaves or comes out of the room then the counter is decremented. The light will be switched OFF until all the persons or visitors leaves from the room. The number of persons or visitors inside the room is displayed on the LCD display. The microcontroller does this work. It receives the signals from the IR sensors, and this signal is operated under the control of source code which is stored in microcontroller. Microcontroller arduino uno Continuously monitor the Infrared sensor. When any object pass in front of the IR sensor signal is send to the microcontroller.

**III**

**TABLE OF CONTENTS**

**IV**

**LIST OF TABLES**

**V**

**LIST OF FIGURES**

**VI**