



**J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited by NAAC with "A" Grade

T.N.Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



**M.E Applied Electronics**

**ACADEMIC YEAR 2023-2024**

S.NO	REGISTER NUMBER	STUDENT NAME	PROJECT WORK	INTERNSHIP
1	731222401001	BAKYALAKSHMI P	✓	✓
2	731222401002	DEEPIKA M	✓	

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**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

# PROJECT WORK



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T.N.Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



M.E – Applied Electronics

**PROJECT DETAILS**

Academic year 2023-2024

S.NO	REGISTER NUMBER	NAME OF THE STUDENT	TITLE OF THE PROJECT	GUIDE NAME
1	731222401001	BAKYALAKSHMI P	IOT BASED SMART SAFETY DEVICE FOR WOMENS	Mrs.U.SASIKALA
2	731222401002	DEEPIKA M	IOT BASED SMART CITY STREET LIGHT MONITORING AND CONTROLLING SYSTEM	Mrs.M.SIVARANJANI

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(Autonomous)**

**T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

**IOT BASED SMART SAFTEY DEVICE FOR  
WOMENS**

**PHASE II REPORT**

*Submitted by*

**BAKYALAKSHMI P**

**(731222401001)**

*in partial fulfillment for the award of the degree  
of*

**MASTER OF ENGINEERING IN  
APPLIED ELECTRONICS**



**J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY  
T.N. PALAYAM, GOBI-638 506.**

**DEPARTMENT OF APPLIED ELECTRONICS**

**ANNA UNIVERSITY, CHENNAI**

**JUNE 2024**



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**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## BONAFIDE CERTIFICATE

Certified that this project report titled "**IOT BASED SMART SAFETY DEVICE FOR WOMENS**" is the bonafide work of **Mrs.BAKYALAKSHMI.P (731222401001)** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



SIGNATURE

**Dr.C.MURUGESAN.M.E.,Ph.D.,**

**HEAD OF THE DEPARTMENT**

**ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**J K K MUNIRAJAH COLLEGE  
OF TECHNOLOGY,  
TN PALAYAM --- 638 506**



SIGNATURE

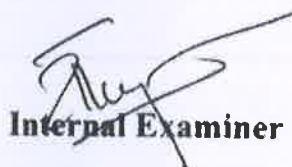
**Mrs.U.SASIKALA.,M.E.,**

**ASSISTANT PROFESSOR**

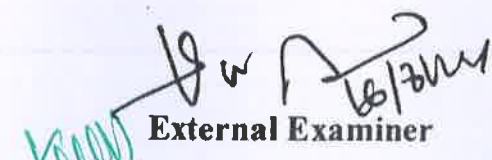
**ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**J K K MUNIRAJAH COLLEGE  
OF TECHNOLOGY,  
TN PALAYAM. — 638 506**

Submitted for the Viva-Voce examination held on 16.08.2024



**Internal Examiner**




**External Examiner**

**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## ABSTRACT

Women's safety has become the primary concern all over the world. According to the official records, the numbers of assaults are rising considerably. On top of that the victims are threatened that if they try to tell anyone about it they might kill them; due to this the victims don't dare to lodge a police station. The main purpose of building this security system to save the victim before any mishap takes place and to provide a highly reliable security system. In this project, a device consists of an ESP 8266, a touch sensor, a buzzer and a node MCU. On applying certain pressure to the pressure sensor, a signal is sent to the buzzer. If the signal received is higher than the threshold value then the buzzer which is placed on the streetlight will produce an alarm. Hearing the alarm if any passer by listens to it they will come immediately to help the person in need. Simultaneously Gsm sent the current location to the police station with help of the Gps device. To build a completely portable safety device which can be useful for women to protect them at times when they are faced with danger and are in need of help, This will help prevent from any mishap happening to women and provide a higher safety system.

**Key Words : Buzzer, ESP 8266, MCU, Pressure Sensor.**

  
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**J.K.K.Munirajah College of Technology**  
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**Erode (Dt) - 638 506**

## CHAPTER 6

### CONCLUSION

#### 6.1 CONCLUSION

The women safety device serves its purpose effectively by providing tracking information. The response of the device is fast and it may assist the user to live safe in any place. This prototype may be in addition developed similarly to make a wearable device. The design may be made extra compact and lighter in weight so that it could be easily transportable and person friendly. It can have provisions to enter multiple contact information as in keeping with the consumers requirements. More defense capabilities may be added which can be managed by numerous monitoring system.

#### 6.2 FUTURE SCOPE

Our project idea gives an extension to design a system which shall make every place and every hour safer for women again. A system which shall re-establish how very gregarious mankind is. We can add a camera and microphone to the Arduino. By using this we can capture the images and record the audio of the person, who are in trouble and save them.



Principal

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Erode (Dt) - 638 506

**IOT BASED SMART CITY STREET LIGHT MONITORING  
AND CONTROLLING SYSTEM**

**PHASE II REPORT**

*Submitted by*

**DEEPIKA.M**

**(731222401002)**

*in partial fulfillment for the award of the degree*

*of*

**MASTER OF ENGINEERING**

*In*

**APPLIED ELECTRONICS**



**J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY**

**DEPARTMENT OF ELECTRONICS AND**

**COMMUNICATION ENGINEERING**

**T.N PALAYAM**

**ANNA UNIVERSITY, CHENNAI-600 025**

**JUNE 2024**

A handwritten signature in blue ink, appearing to be 'J.K.K. Munirajah', is written over the printed name of the Principal.

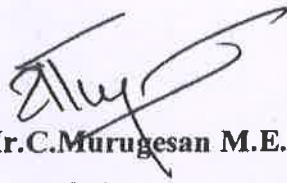
**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)**

**T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

**BONAFIDE CERTIFICATE**

Certified that this project report titled "**IOT BASED SMART CITY STREET LIGHT MONITORING AND CONTROLLING SYSTEM**" is the bonafide work of **Mrs.M.DEEPIKA (731222401002)** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

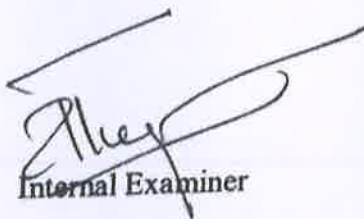


**Mr.C.Murugesan M.E.,Ph.D.,**  
Head of The Department  
Department of Electronics and  
Communication Engineering  
J K K Munirajah College of  
Technology , T.N.Palayam.

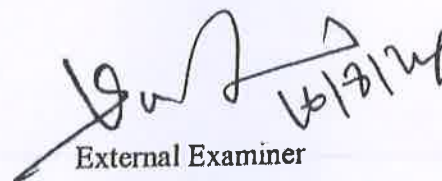


**Mrs.M. Sivaranjani M.E.,**  
Assistant Professor  
Department of Electronics and  
Communication Engineering  
J K K Munirajah College of  
Technology,T.N.Palayam.

Submitted for the project Viva-Voice Examination held on: **16.08.24**



**Internal Examiner**



**External Examiner**



**Principal**  
**J.K.K.Munirajah College of Technology,**  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

**ABSTRACT**

The Massive implementation of internet of things (IoT) is allowing smart City projects and initiatives all over world. Approach of Internet things is to merge the various sensors with ICT solutions. In last few years more than 50 billions objects has been connected for the implementation of smart cities. Internet of things (IoT) communications is the hub of smart City operations. The reason behind the designed of internet of things (IoT) is to support the smart city concepts, which aims to use advanced communication technologies for city administration and to promote various services for the citizens. Advanced technologies has made smart cities a versatile parameters for controlling, monitoring and operating in various fields, like(Traffic management, overflowed of garbage's, waste of electricity etc.). The cities are become smarter than ever before in efficient manners without spending much time and manpower. This project is a sincere effort's to list the essentials of 'smart city' and to overcome the problems that face by ordinary cities. Also, the main purpose of this system is to make daily tasks easy and more efficient and it helps to reduce manpower.



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## 6. CONCLUSION

Nowadays resources (water, power, air, etc.) are very precious. This work focused to protect one such resource i.e. energy. Electricity is one of the major losses of energy. Using IoT the street lights ON/OFF is automated based on the weather condition, the working status of the street light is observed. The LDR sensor senses the environmental changes, the ON/OFF of the street lights is made automatically.

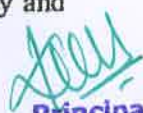
Whenever the street light got damaged or not on during night time, the LDR sensor senses it and sends the notification to the authorized person that the light is damaged and the location (using GPS) where the light is damaged. It reduces human efforts, delays in fixing the issues. The automatic control of street lights is used to find the exact location when the street light gets damaged.

## FUTURE ENHANCEMENTS

Further, this can be implemented for all the street lamps in rural lamps. Pre-identification of damaged street lights is done based on the expiry of lamps.

There are also several potential future enhancements that could be made to the system, such as integrating with weather data, adding motion detection, using adaptive learning algorithms, incorporating wireless connectivity, and utilizing renewable energy sources.

These enhancements could further improve the efficiency and effectiveness of the street light automation system.

  
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Erode (Dt) - 638 506

# INTERNSHIP



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M.E – Applied Electronics

Academic Year: 2023-2024

**Internship Details**

S. No	REGISTER NUMBER	NAME OF THE STUDENT	NAME OF THE COMPANY	LOCATION	DATE
1	731222401001	BAKYALAKSHMI P	Universal Power Supplies	Varanapuram, Bhavani – 638301	13.03.2024 TO 17.05.2024

**Principal**  
J.K.K.Munirajah College of Techno  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



ELECTRONICS COMMUNICATION <jkkmctece2013@gmail.com>

## INTERNSHIP REQUISITION

2 messages

ELECTRONICS COMMUNICATION <jkkmctece2013@gmail.com>

Fri, Feb 23, 2024 at 09:15 AM

To: power supplies <gbro@gmail.com>

Sir,

On behalf of J.K.K.Munirajah College of Technology, we wish to request for permission to do Project Internship training at your company Universal Power supplies.

We wish to undertake our student a Project Internship training at your company from 13.03.24 onwards upto two months to complete their project. As per the curriculum, the student needs to join a two month long internship and attain a certificate after satisfactory training. It will be a golden opportunity for the students as they will get to learn a lot of new things. We believe that your company will give relevant knowledge and training during this internship to complete their project.

Our student P.bakyalakshmi is intend to participate in this Project Internship. Please allow our student to do Project Internship at your company and meet your skilled employee. Thank you in advance.

With Regards,  
HoD/ECE

ECE DEPARTMENT

ECLON WELCOMES U ALL..

 INTERNSHIP.pdf  
164K

power supplies <gbro@gmail.com>

Sat, Feb 24, 2024 at 11:12 AM


To: ELECTRONICS COMMUNICATION <jkkmctece2013@gmail.com>

Dear Sir,

With great pleasure we welcome the listed student from your attached letter, to do project internship training in our company from 13.03.2024 onwards.

Best Regards,  
UPS



  
Principal  
J.K.K.Munirajah College of Technology,  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

# UNIVERSAL POWER SUPPLIES

Department of R & D Centre,  
Varanapuram, Bhavani, Tamil Nadu 638301

Phone: 099421 07795

Website: www.gbro.in

Date: **17.05.2024**

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that the student **Ms.P.BAKYALAKSHMI (Reg. No: 731222401001)** M.E.-Applied Electronics Second Year from J.K.K.Munirajah College of Technology, T.N.Palayam, Gobi, has satisfactorily completed her Internship during the period of **13.03.2024 to 17.05.2024**.

She worked on the project titled "IOT BASED SMART SAFETY DEVICE FOR WOMENS" under our guidance.

During the above mentioned period her conduct and behavior remains good,  
We wish her all the best for future.

For



Electronics R & D Manufacturing  
Universal Power Supplies

Project Manager

**UNIVERSAL POWER SUPPLIES**

Opp. Bhavani G.H.,

Bhavani - 638 301.

Contact : 88833 96669

Principal

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(Autonomous)**

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Erode (Dt) - 638 506**