



TRINITY COLLEGE OF ENGINEERING AND RESEARCH PUNE
(Accredited by NAAC with B++ Grade Approved by AICTE & Affiliated to SPPU, Pune)
Sr. No. 25 & 27, Near. Khadi Machine Chowk, Kondhwa Annexe, Pune-48, Maharashtra
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

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Project Guide List

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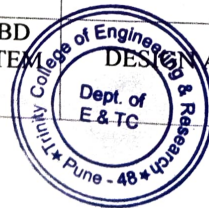
Semester: I

Date: 26/08/2022

All the students are informed to give presentation on Project Topic on Monday. It's Compulsory and there will be no change in project topic and date of presentation.

Names of the Student	Roll No.	Domain	Title of the Project	Guide
MUDHE SUSHANT RAJENDRA	EN4006	EMBD SYSTEM	BIOMETRIC ATTENDANCE SYSTEM WITH GSM ALERT	PROF. P.P.CHAVAN
VANJARI SHUBHAM ASHOK	EN4010			
KAMBLE PRATHMESH SANTOSH.	EN4004			
CHORAGHE RUTUJA GANESH	EN4001	EMBD SYSTEM	SMART LIGHTENING CONTROL SYSTEM	PROF. P.P.DESHMUKH
SABLE SHRUTIKA RAJESH	EN4007			
SHINDE OMKAR DATTATRAYA	EN4009	EMBD SYSTEM	WET AND DRY WASTE MANAGEMENT	PROF. S. M. HANDORE
ZINJADE PRAVIN DADA	EN4011			
DONGARE KRISHNA SAHEBRAO	EN4002	EMBD SYSTEM	DESIGN AND DEVELOPEMENT OF AUTOMATIC FLOOR CLEANER	PROF.A.R. DESHMUKH
MD KAIF ALI	EN4005			


Project Coordinator



Head
Dept. of E & TC
Trinity College of Engg. & Res.
Head of Department



Trinity College of Engineering and Research, Pune

CERTIFICATE

This is to certify that, the project report titled
“**Biometric Attendance System with GSM Alert**”
is a work carried out


By

Kamble Prathmesh Santosh (EN4004)
Vanjari Shubham Ashok (EN4010)

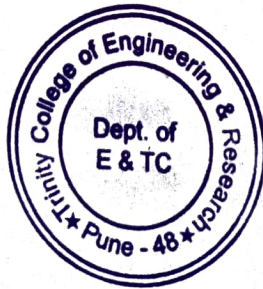
Under the guidance of


Prof. Pratibha Chavan.

During the academic sessions of year 2022 to 2023 and it is here by approved for the partial fulfillment of the mandatory requirement of Savitribai Phule Pune University, for Project, under the faculty of Final year of Engineering (E&TC), of Savitribai Phule Pune University.


Mrs. Pratibha Chavan
Project Guide

Date: 02.06.23
Place: Pune.




Dr. S. M. Handore
HOD (E&TC)
Head
Dept. of E & TC
Trinity College of Engg. & Research
Pune-411 048.

Biometric Attendance system using gsm alert

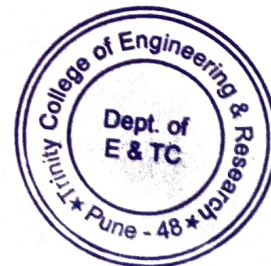
ABSTRACT

In industrial and domestic applications attendance registering is important at each and every moment. Many faces a lot of problems due to lack of proper attendance monitoring system. In this project we use Fingerprint Sensor (R307) which senses the Fingerprint of a particular person; a buzzer and LED gets activated whenever a person places his finger on the sensor. Then the fingerprint is stored in cloud with id no. Many people can store their fingerprints. Then next time any person puts their finger on the sensor it checks there are any matching fingerprints or not. If his fingerprint matches with any of the stored fingerprints then the LCD display shows which person it is and the time & date of checking.

In this model, all the fingerprints are stored each and every time someone places his finger. User can connect the system wirelessly with the cloud and monitor the process. When the app is running on the computer, data sent by R307 fingerprint module is received and stored on the cloud and displayed in serial monitor and 16*2 LCD display module. Attendance systems are commonly used systems to mark the presence in offices and schools. From manually marking the attendance in attendance registers to using high-tech applications and biometric systems, these systems have improved significantly. This project has a wide application in school, college, business organization, offices where marking of attendance is required accurately with time. By using the fingerprint sensor, the system will become more secure for the users.

Biometric student attendance system increases the efficiency of the process of taking student 2 attendance. This system aims to automate the cumbersome process of manually taking and storing student attendance records. It will also prevent proxy attendance, thus increasing the reliability of attendance records. The records are securely stored and can be reliably retrieved whenever required by the teacher.

Proper attendance recording and management has become important in today's world as attendance and achievement go hand in hand. Most of the educational institutions and government organizations in developing countries still use paper-based attendance method for maintaining the attendance records. Fingerprint matching is widely used in forensics for a long time. It can also be used in applications such as identity management and access control. This review incorporates the problems of attendance systems presently in use, working of a typical fingerprint-based attendance system, study of different systems, their advantages, disadvantages and comparison based upon important parameters.





Trinity College of Engineering and Research, Pune

CERTIFICATE


This is to certify that, the project report titled
“Smart lightning controller system”
is a work carried out

By

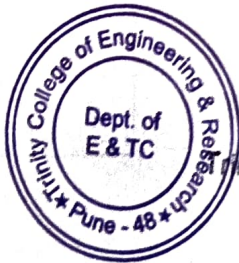
Sable Shrutika Rajesh (EN4007)
Choraghe Rutuja Ganesh (EN4001)

Under the supervision/guidance of
Prof. Pranjali Deshmukh

During the academic sessions of year 2022 to 2023 and it is here by approved for the partial fulfillment of the mandatory requirement of Savitribai Phule Pune University, for Project, under the faculty of Final year of Engineering (E&TC), of Savitribai Phule Pune University.


Mrs. Pranjali Deshmukh
Project Guide

Date: 02/06/23
Place: Pune.



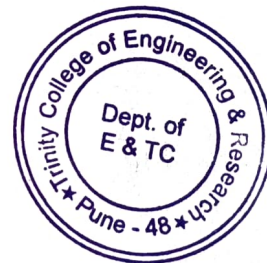

Dr. S. M. Handore
HOD (E&TC)

Head
Dept. of E & TC
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Pune-411 048.

Smart lightning controller system

Abstract:

Nowadays, technology development encourages people to think creatively, not only to explore new discoveries, but also to maximize existing technological performance to ease human work in everyday life. The need for an automatic control system is needed with the increasing activity of each individual community with various erratic activities and times. As a result, many activities in the household are delayed, such as turning on or turning off the lights in every room at night and in the morning respectively. Smart home system is one solution that suits the needs of the current automatic controllers. Smart home system is a home or building, is equipped with an integrated technology with the help of the tool/tools which can be a computer or other device, for example a smartphone to provide all the comfort, safety, security and energy saving is automatic and programmed. The smart home system can be used to control almost all equipment and equipment at home, from lighting settings to various household appliances, which can be done only by using sound, infrared light or remote control. In this study, a smart home system was created for home light control system applications using Arduino Uno microcontroller via mobile-based Wi-Fi media. With this application the user can control the home lights by turning off or turning on the home lights remotely through the mobile media. Thus the efficiency of electricity use becomes more maintained.





Trinity College of Engineering and Research, Pune 411048.

CERTIFICATE

This is to certify that, the project report titled

“Dry And Wet Waste Management System”

Is a work carried out


By

- 1) **OMKAR SHINDE (EN4009)**
- 2) **PRAVIN ZINJADE (EN4011)**

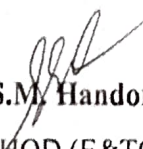
Under the supervision/guidance of

Dr. S.M. Handore

during the academic sessions of year 2022 to 2023 and it is here by approved for the partial fulfillment of the mandatory requirement of Savitribai Phule Pune University, for Project, under the faculty of Fourth year of Engineering (E&TC) of Savitribai Phule Pune University.


Dr. S.M. Handore
Project Guide

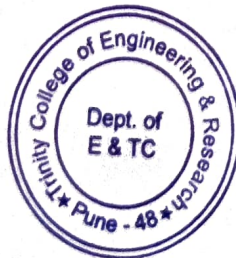
External Examiner


Dr. S.M. Handore
HOD (E&TC)
Head

Dept. of E & TC
Trinity College of Engg. & Research
Pune-411 048.

Date: 2 / 6 / 2023

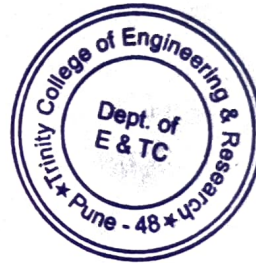
Place: Pune.



Dry and Wet Waste Management System

Abstract

Waste management faces numerous difficulties because of its enormous, quickly developing populace in a densely populated nation in the developing nations. The primary target of the research work is dry and wet waste separation and management process. A portion of the trash individuals produce is biodegradable, some are recyclable. Waste segregation includes isolating wastes as per how it's deal with or handled. Isolation of waste through at unloading locales burns-through additional time and labor. This work suggests a spontaneous waste segregator which is a modest, simple to utilize answer for an isolation framework at family units. It will be used for wet food junks or even as a normal daily bin. The wet and dry waste and separating system has been developed using microcontroller. As the integrated circuits and microcontroller become more and more accessible and the technology is a fact of today with the improved availability of sensor devices.





Trinity College of Engineering and
Research, Pune 411048.

CERTIFICATE

This is to certify that, the project report titled

“DESIGN AND DEVELOP OF SMART FLOOR CLEANER”
is a work carried out

By


MD KAIF ALI (EN4004)

KRISHNA DONGARE (EN4002)

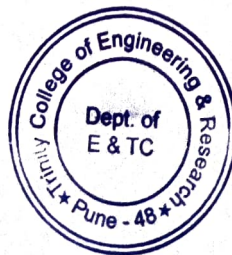
Under the supervision/guidance of

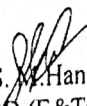
Prof. Ashwini R Deshmukh.

During the academic sessions of year 2022-23] and it is here by approved for the partial fulfilment of the mandatory requirement of Savitribai Phule Pune University, for Project, under the faculty of Final year of Engineering (E&TC), of Savitribai Phule Pune University.


Mrs. Ashwini R Deshmukh
Project Guide

Date:- 21/6/23
Place:- Pune.




Dr. S. M. Handore
HOD (E&TC)

Head
Dept. of E & TC

Trinity College of Engg. & Research
Pune-411 048.

Advanced Floor Cleaning System

Keeping our floor clean and tidy at home, industries is really important. In this process we waste a lot of water and also reuse the same water again and again. By doing this we are not actually cleaning the floor. We also have to put in a lot of manual effort while cleaning. We can also slip and fall due to wet surface while cleaning the floor. We studied various floor cleaning machines available. We then designed a floor cleaning machine which is an advanced version of the existing floor cleaning machines. We have introduced motor driven brush to improve cleaning action, sprinkler system to sprinkle water to floor and to eliminate unnecessary wastage of water, a vacuum system to collect the dust particles from floor and a drying mechanism which helps in drying the floor after cleaning. We have included few mechanisms for the proper functioning of the machine as intended and to improve the efficiency of cleaning. The model designed is slightly big in size and is suitable for industries, big houses and halls but the size of various components can be reduced for its usage in our homes. We have also tried to enhance the functionality of the existing automatic floor cleaners

