



SAPTHAGIRI COLLEGE OF ENGINEERING

(AFFILIATED TO VTU, BELAGAVI. APPROVED BY AICTE, NEW DELHI).
(An ISO 9001:2015 and 14001:2015 Certified Institution),(Accredited by NBA & NAAC with "A" Grade)

No. 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560107

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

IV YEAR PROJECT BATCHES

| SL.NO | USN | STUDENTS NAMES | TITLE OF PROJECT |
|-------|------------|--------------------------|--|
| | 1SG19EE025 | Clevin Prajwal D'souza | |
| B1 | 1SG19EE001 | Abhimanyu Kumar | Drive for Switch Reluctance Motor |
| | 1SG19EE014 | Bharath N | |
| | 1SG19EE028 | Dileep B S | |
| | 1SG19EE004 | Akash G J | |
| B2 | 1SG19EE007 | Anushree H D | Women safety night patrolling robot |
| | 1SG19EE011 | B Lalitha | |
| | 1SG19EE036 | Harshitha M J | |
| | 1SG19EE010 | Ayyappa J | Design, construction of a solar tracking system and comparison over conventional stationary solar panel system |
| B3 | 1SG19EE031 | Gagan B R | |
| | 1SG19EE033 | Gurunandan S | |
| | 1SG19EE037 | Hemanth P A | |
| | 1SG19EE034 | Hanamant Maradi | |
| B4 | 1SG20EE405 | Chethan L | Zigbee based wireless home security system |
| | 1SG20EE403 | Chandrashekhar Reddy S H | |
| | 1SG20EE400 | Adithya P | |
| | 1SG19EE006 | Anusha R | |
| B5 | 1SG19EE008 | Archana S B | DTMF Controlled Stair Climbing Robot |
| | 1SG19EE021 | Chaithra B M | |
| | 1SG19EE040 | Karuna N | |
| | 1SG19EE002 | Advika Shivanna | |
| B6 | 1SG19EE018 | Bhoomika A | Smart spying robot with vision (solider alive detection, smoker bomb detection and health monitoring) |
| | 1SG19EE019 | Bhoomika N | |
| | 1SG19EE038 | K Hema | |


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| | | | |
|-----|------------|--------------------|--|
| | ISG19EE017 | Bhavya S | |
| B7 | ISG19EE041 | Keerthi BR | Fault detection of electrical equipments using artificial intelligence |
| | ISG19EE035 | Harshitha C | |
| | ISG19EE029 | Divya N | |
| | ISG19EE009 | Arpitha G | |
| B8 | ISG19EE012 | Bharath B | A new IOT gateway for Artificial intelligence in Agriculture |
| | ISG19EE023 | Chinmaye N | |
| | ISG20EE401 | Bhavana C | |
| | ISG19EE015 | Bhavana K S | |
| B9 | ISG19EE027 | Dharshan C S | Iot based automated paralysis patient health care system using Arduino |
| | ISG19EE032 | Girish E | |
| | ISG20EE404 | Chandrika V | |
| | ISG19EE005 | Anupama D | |
| B10 | ISG19EE016 | Bhavana Y S | Centralized Automation of Petrol bunk management and safety using RFID |
| | ISG19EE043 | Kruthika J S | |
| | ISG20EE402 | Bhumika N | |
| B11 | ISG18EE039 | Hemashree S | |
| | ISG19EE024 | Chitrashree D C | Greenhouse monitoring and controlling using Android mobile application |
| | ISG19EE039 | Janet Evangelin KM | |
| | ISG19EE022 | Chethan V | |
| B12 | ISG19EE013 | Bharath K H | |
| | ISG19EE030 | Fazlil Abbas A K | Efficiency Enhancement of wind turbine using MAGLEV TECHNIQUE |
| | ISG18EE072 | Santhosh Reddy G | |
| | ISG19EE042 | Kruthik L G | |
| B13 | ISG19EE054 | Nuthan SM | |
| | ISG19EE061 | Punithkumar B | Embedded based vehicle accident detection and rescue system |
| | ISG19EE071 | Snehas KT | |
| | ISG19EE079 | Vignesh | |
| B14 | ISG19EE076 | Tejas K N | |
| | ISG19EE045 | Likhitha H D | The Eye-Gaze Technology |
| | ISG19EE073 | Srivatsa P S | |
| | ISG19EE052 | Nandini S | |
| | ISG19EE046 | M Jayashri | |

| | | | |
|-----|-------------|-------------------------|--|
| B15 | ISG19EE062 | Rakshitha SD | Biometrically Secured ATM Vigilance System |
| | ISG19EE066 | Revathi S | |
| | ISG19EE077 | Vathsala R | |
| | ISG19EE064 | Ravi kiran | |
| B16 | ISG19EE065 | Revanth Aradhya U | Programmable bionic arm |
| | ISG19EE072 | Sonu Kumar Shah | |
| | ISG19EE078 | Veeresh S | |
| | | | |
| B17 | ISG19EE048 | Manoj KM | Automatic detection and notification of speed breakers and pathole using global positioning system |
| | ISG19EE049 | Manu S | |
| | ISG19EE050 | Monisha Y | |
| | ISG19EE081 | Vimala N | |
| | | | |
| B18 | ISG19EE058 | Pavankumar G | Induction motor speed control using spartan6 FPGA Kit |
| | ISG18EE057 | Priya N | |
| | ISG19EE057 | Pappu Kumar sah | |
| | ISG19EE083 | Vinod V | |
| | | | |
| B19 | ISG19EE069 | Sahana K Dhage | An efficient G2V and V2G converter system for EV applications |
| | ISG19EE074 | Sudharani Bhimanna Koti | |
| | ISG19EE087 | Chandhan Kumar N | |
| | ISG20EE0406 | Dhananjaya B N | |
| | | | |
| B20 | ISG20EE407 | Punithkumar M N | Gas Leakage with Auto Ventilation and Smart Management System Using IoT |
| | ISG20EE409 | Rakesh D R | |
| | ISG20EE411 | Shiva Reddy N S | |
| | ISG19EE068 | Sahana B Meti | |
| | | | |
| B21 | | | Incorporating Residential Smart Electric Vehicle Charging in Home Energy Management Systems |
| | ISG19EE900 | Shreya M | |
| | ISG19EE086 | Yukthi V | |
| | ISG19EE084 | Vinutha HR | |
| | ISG19EE051 | Mythrinayaka NS | |
| | | | |
| B22 | ISG19EE068 | Naren P Vasist | Eco-friendly 3D printer |
| | ISG19EE055 | P S Guru Prasad | |
| | ISG19EE059 | Prajwal S | |
| | ISG19EE082 | Vinayaka V | |
| | ISG19EE080 | Vijayalakshmi A Bongale | |

| | | | |
|-----|------------|-----------------|---|
| B23 | ISG19EE063 | Ranjitha N | |
| | ISG19EE085 | Likhith Kumar R | Battery management system |
| | ISG19EE060 | Prajwal V | |
| | | | |
| B24 | ISG20EE410 | Shivaraja M P | |
| | ISG19EE047 | Maneesh | |
| | ISG19EE085 | Vishwas M | A high powered Switch Mode Power Supply with short circuit Protection |

HOD, EEE

PROF & HOD

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CERTIFICATE

Certified that the project work entitled "DRIVE FOR SWITCH RELUCTANCE MOTOR" is carried out by ABHIMANYU KUMAR bearing USN [1SG19EE001], BHARATH N bearing USN [1SG19EE014], CLEVIN PRAJWAL D'SOUZA bearing USN [1SG19EE025], DILEEP B S bearing USN [1SG19EE028], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Sign. of the Internal Guide

Dr. Rekha S N
Professor & H.O.D

Signature of the HOD

Dr. Rekha S N
Professor & HOD

Signature of the Principal

Dr. H. Ramakrishna
Principal
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External Viva

Name of the examiners

1. Rekha cm
2. Dr. Vidyas . M

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Bangalore - 560 057

Signature with date


Rekha cm 22/6/23
Vidyas . M 22/5/23


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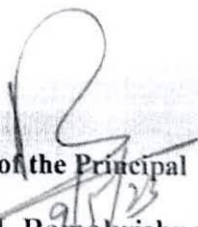


CERTIFICATE

Certified that the project work entitled "WOMEN SAFETY NIGHT PATROLLING ROBOT" is carried out by AKASH G J bearing USN [1SG19EE004], ANUSHREE HD bearing USN [1SG19EE007], B LALITHA bearing USN [1SG19EE011], HARSHITHA MJ bearing USN [1SG19EE036], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.


Sign. Of the Internal Guide
Dr. G Raghavendra
Assoc. Professor


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D
HOD


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2. **Dr. Vidya M**


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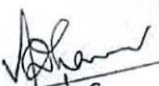
Signature with date
Rekha 22/5/23
Vidya M 22/5/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled "DESIGN AND CONSTRUCTION OF A SOLAR TRACKING SYSTEM AND COMPARISON OVER CONVENTIONAL STATIONARY SOLAR PANEL SYSTEM" is carried out by AYYAPPA J bearing USN [1SG19EE010], GAGAN B R bearing USN [1SG19EE031], GURUNANDAN S bearing USN [1SG19EE033], HEMANTH P A bearing USN [1SG17EE037], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.


Sign. of the Internal Guide
Mr. Dhamodaran A
Asst. Professor


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D
HOD

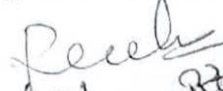

Signature of the Principal
Dr. H. Ramakrishna
Principal

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Name of the examiners
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2. Dr. Vidya. M

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Signature with date

Vidya. M
22/5/23


Department of Electrical & Electronics Engineering
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CERTIFICATE

Certified that the project work entitled "ZIGBEE BASED WIRELESS HOME SECURITY SYSTEM" is carried out by HANAMANT MARADI bearing USN [1SG19EE034], ADITHYA P bearing USN [1SG20EE400], CHETHAN L bearing USN [1SG20EE405], CHANDRASHEKHARAREDDY S H bearing USN [1SG20EE403], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.


Sign. of the Internal Guide
Prof. Ashwini C
Asst. Professor


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D
HOD


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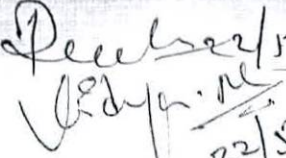
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Name of the examiners

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22/5/23

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CERTIFICATE

Certified that the project work entitled DTMF CONTROLLED STAIR CLIMBING ROBOT carried out by ANUSHA R bearing USN [1SG19EE006], ARCHANA S B bearing USN [1SG19EE008], CHAITHRA B M bearing USN [1SG19EE021], KARUNA N bearing USN [1SG19EE040], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Sign. of the Internal Guide

Mrs. Ramya M
Asst. Professor

Signature of the HOD

Dr. Rekha S N
Professor & HOD

Signature of the Principal

Dr. H. Ramakrishna
Principal

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Rekha 22/5/23
Vidya M 22/5/23


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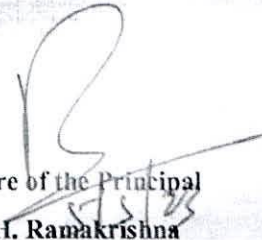


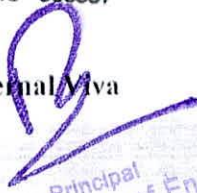
CERTIFICATE

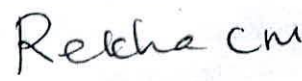
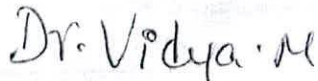
Certified that the project work entitled **SMART SPY ROBOT** is carried out by **ADVIKA SHIVANNA** bearing USN [1SG19EE002], **BHOOMIKA A** bearing USN [1SG19EE018], **BHOOMIKA N** bearing USN [1SG19EE019], **K HEMA** bearing USN [1SG19EE038], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.


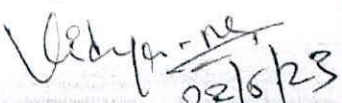

Sign. of the Internal Guide
Mrs. Ashwini AV
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Signature of the HOD
Dr. Rekha S N
Professor & H.O.D
PROF & HOD
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Signature of the Principal
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Principal
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Name of the examiners
1. 
2. 

Signature with date



Department of Electrical & Electronics Engineering
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CERTIFICATE

Certified that the project work entitled **Electrical fault detection of transmission line using artificial intelligence** is carried out by **BHAVYA S** bearing USN [1SG19EE017], **DIVYA N** bearing USN [1SG19EE029], **HARSHITHA C** bearing USN [1SG19EE035], **KEERTHI B R** bearing USN [1SG19EE041], bonafide students of Sapthagiri College of Engineering in partial fulfillment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in thereport deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Sign. of the Internal Guide

Mrs. Swetha G
Asst. Professor

Signature of the HOD

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Name of the examiners

1. Rekha CM
2. Dr. Vidya. M

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Rekha 22/05/23
Vidya. M
22/5/23

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CERTIFICATE

Certified that the project work entitled A New IOT Gateway For Artificial Intelligence In Agriculture is carried out by ARPITHA G bearing USN [1SG19EE009], BHARATH B bearing USN [1SG19EE012], CHINMAYE N bearing USN [1SG19EE023], BHAVANA C bearing USN [1SG20EE401], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.


Sign. of the Internal Guide

Mrs. Preetha N P
Asst. Professor


Signature of the HOD

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Signature of the Principal

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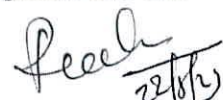
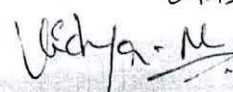
External Viva

Name of the examiners

1. Rekha CN
2. Dr. Vidya. M


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
Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING

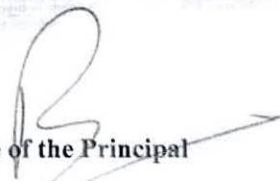


CERTIFICATE

Certified that the project work entitled **IOT BASED PARALYSIS PATIENT HEALTH MONITORING SYSTEM** is carried out by **BHAVANA K S** bearing USN [1SG19EE015], **DHARSHAN C S** bearing USN [1SG19EE027], **GIRISH E** bearing USN [1SG19EE032], **CHANDRIKA V** bearing USN [1SG20EE404], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.



Sign. of the Internal Guide
Prof. Malashree G
Asst. Professor


Signature of the HOD
Dr. Rekha S
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Signature of the Principal
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Name of the examiners
1. **Rekha. CM**
2. **Dr. Vidya. M**


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Signature with date
Rekha
22/5/23
Vidya M
22/5/23

Department of Electrical and Electronics Engineering

SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled "**Centralized Automation of Petrol Bunk Management and Safety using RFID**" is carried out by **ANUPAMA D** bearing USN [1SG19EE005], **BHAVANA Y S** bearing USN [1SG19EE016], **KRUTHIKA J S** bearing USN [1SG19EE043], **BHUMIKA N** bearing USN [1SG20EE402], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

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Mrs. Supriya S

Asst. Professor

Signature of the HOD

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Professor & H.O.D

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Signature of the Principal

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Name of the examiners

1. **Thansi:k**
2. **Ramya.m**

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Thansi:k
23/5/23
Ramya
23/5/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING

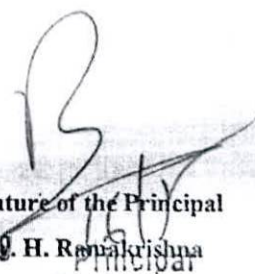


CERTIFICATE

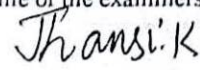
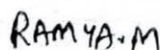
Certified that the project work entitled **GREENHOUSE MONITORING AND CONTROLLING USING ANDROID MOBILE APPLICATION** is carried out by **CHETHAN V** bearing USN [1SG19EE022], **CHITRASHREE DC** bearing USN [1SG19EE024], **HEMASHREE S** bearing USN [1SG18EE039], **JANET EVANGELIN KM** bearing USN [1SG19EE039], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.


Sign. of the Internal Guide
Mr. Gopinath K
Asst. Professor

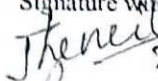
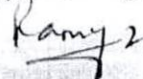

Signature of the HOD
Dr. Rekha S N
Professor & HOD
Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road
Chikkasandra, Bangalore - 560 057


Signature of the Principal
Dr. H. Ramakrishna
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore-560 057


External Viva

Name of the examiners
1. 
2. 


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangaluru - 560 057

Signature with date
 23/5/23
 23/5/23

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled "Efficiency enhancement of wind turbine using MAGLEV technology" is carried out by, SANTHOSH REDDY G bearing USN [ISG18EE072], BHARATH K H bearing USN [ISG19EE013], FAZLIL ABBAS A K bearing USN [ISG19EE030], KRUTHIK L G bearing USN [ISG19EE042], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Signature of the Internal Guide

Dr. Vidya. M
Associate Professor

Signature of the HOD

Dr. Rekha S N
Professor & H.O.D
HOD

Signature of the Principal

Dr. H. Ramakrishna
Principal
Principal

Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road, Chikkasandra, Bangalore - 560 057
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore- 560 057

External Viva

Name of the examiners

1. Thamsik
2. Ramya.M

Signature
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057

Signature with date

Thamsik 23/5/23
Ramya.M 3/5/23

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled **Embedded Vehicle Safety And Authentication** is carried out by NUTHAN S M bearing USN [1SG19EE054], PUNITH KUMAR B bearing USN [1SG19EE061], SNEHAS K T bearing USN [1SG19EE071], VIGNESH G bearing USN [1SG19EE079], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Sign. of the Internal Guide

Dr. Rekha S N
Professor & H.O.D

Signature of the HOD

Dr. Rekha S N
Professor & H.O.D

Signature of the Principal

Dr. H. Ramakrishna
Principal

Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road, Chikkasandra, Bangalore - 560 057. Bangalore-560 057

External Viva

Name of the examiners

1. Jhansi:K
2. RAMYA.M

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057

Signature with date

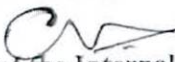
Jhansi:K
23/5/23
Ramya.M
23/5/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING

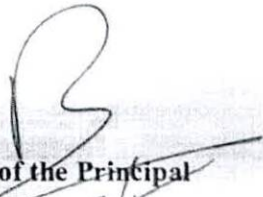


CERTIFICATE

Certified that the project work entitled THE EYE-GAZE TECHNOLOGY carried out by LIKHITHA H D bearing USN [ISG19EE045], NANDINI S bearing USN [ISG19EE052], SRIVATSA P S bearing USN [ISG19EE073], TEJAS KN bearing USN [ISG19EE076], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Sign. of the Internal Guide

Dr. Raghavendra G
Associate Professor

Signature of the HOD

Dr. Rekha S N
Professor & H.O.D

Signature of the Principal

Dr. H. Ramakrishna
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore-560 057

HOD
Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road,
Chikkasandra, Bangalore - 560 057.

External Viva

Name of the examiners
1. *Thansi k*
2. *R AMYA.M*


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature with date
Theneel
23/5/23
Ramp 23/5/23



SAPTHAGIRI COLLEGE OF ENGINEERING

(Recognized by AICTE, New Delhi & Affiliated to VTU, Belagavi)

An ISO 9001:2015 & 14001:2015 certified institution

Accredited by NBA & NAAC with 'A' grade

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560 057.

Department of Electrical & Electronics Engineering

CERTIFICATE

Certified that the project work entitled BIOMETRICALLY SECURED ATM VIGILANCE SYSTEM is carried out by **M JAYASHRI** bearing USN [1SG19EE046], **RAKSHITHA S D** bearing USN [1SG19EE062], **REVATHI S** bearing USN [1SG16EE066], **VATHSALA R** bearing USN [1SG19EE077], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Sign. of the Internal Guide

Mr. A Dhamodaran
Asst. Professor

Sign. of the HOD

Dr. Rekha S N
Professor & H.O.D

Sign. of the Principal

Dr. H. Ramakrishna
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road

HOD
Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road,
Chikkasandra, Bangalore - 560 057.

External Viva-Voce Examination:

Name of the examiners

1.

Thansi-k

2.

RAMYA.M

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature with date

Thansi-k
23/5/23
Ramy
23/5/23

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled PROGRAMMABLE BIONIC ARM is carried out by RAVI KIRAN K bearing USN [1SG19EE064], REVANTH ARADHYA U bearing USN [1SG19EE065], SONU KUMAR SHAH bearing USN [1SG19EE072], VEERESH S bearing USN [1SG19EE078], Bonafede students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Sign. of the Internal Guide

Mrs. ASHWINI C
Asst. Professor

Signature of the HOD

Dr. R. K. S. N

Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road,
Chikkasandra, Bangalore - 560 057.

Signature of the Principal

Dr. H. Ramakrishna

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore- 560 057

External Viva

Name of the examiners

1. Jhansi k
2. RAMYA .M

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bangalore - 560 057

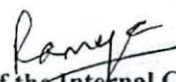
Signature with date


Jhansi k 23/5/23
Ramya 23/5/23

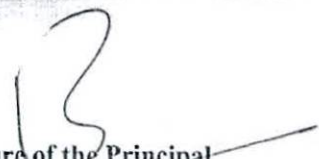
Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



Certified that the project work (18EEP83) entitled "Automatic Detection and Notification of Speed Breaker and Pothole Using Global Positioning System" is carried out by Manoj KM, Manu S, Monisha Y, Vimala N bearing USN [1SG19EE048], [1SG19EE049], [1SG19EE050], [1SG19EE081] respectively bonafide student of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited. The project work report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.


Sign. of the Internal Guide
Mrs. Ramya M
Asst. Professor


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D

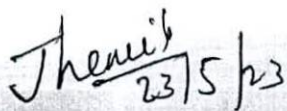
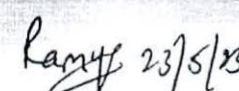

Signature of the Principal
Dr. H. Ramakrishna
Principal

Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road,
Chikkasandra, Bangalore - 560 057.
External Viva

Name of the examiners

1. Jhansi:k
2. RAMYA-M


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560 057


23/5/23

23/5/23
Signature with date



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Department of Electrical & Electronics Engineering

CERTIFICATE

Certified that the project work entitled BIOMETRICALLY SECURED ATM VIGILANCE SYSTEM is carried out by PRIYA N bearing USN [1SG18EE057], PAPPU KUMAR SHAH bearing USN [1SG19EE057], PAVAN KUMAR G bearing USN [1SG19EE058], VINOD V bearing USN [1SG19EE083], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

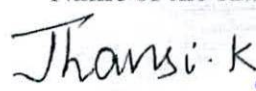
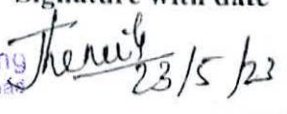
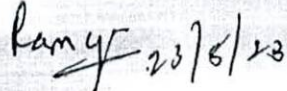

Sign. of the Internal Guide
Mrs. Ashwini A V
Asst. Professor


Sign. of the HOD
Dr. Rekha S N
Professor & H.O.D


Sign. of the Principal
Dr. H. Ramakrishna
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore - 560 057

Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road,
Chikkasandra, Bangalore - 560 057

External Viva-Voce Examination:

- | Name of the examiners | Signature with date |
|--|--|
| 1.  |  23/5/23 |
| 2. RAM YAM |  23/5/23 |


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057



SAPTHAGIRI COLLEGE OF ENGINEERING

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Accredited by NBA & NAAC with 'A' grade

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560 057.

Department of Electrical & Electronics Engineering

CERTIFICATE

Certified that the project work entitled **AN EFFICIENT G2V AND V2G CONVERTER SYSTEM FOR EV APPLICATIONS** is carried out by **SAHANA K DHAGE** bearing USN [ISG19EE069], **SUDHARANI BHIMANNA KOTI** bearing USN [ISG19EE074], **CHANDANKUMAR N** bearing USN [ISG19EE087], **DHANANJAYA B N** bearing USN [ISG20EE406], bonafide students of Sapthagiri College of Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year **2022-2023**. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Sign. of the Internal Guide
Mrs. Swetha G
Asst. Professor

Sign. of the HOD
Dr. Rekha S N
Professor & H.O. D

Sign. of the Principal
Dr. H. Ramakrishna
Principal of Engineering
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore-560 057

Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road,
Chikkasandra, Bangalore - 560 057.

External Viva-Voce Examination:

Name of the examiners

1. Dayananda. L.N

2. Swetha G

Signature with date

24/5/23

24/5/23


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING

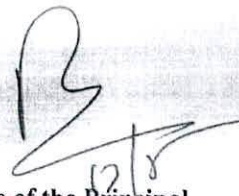


CERTIFICATE

Certified that the project work entitled GAS LEAKAGE WITH AUTO VENTILATION AND SMART MANAGEMENT SYSTEM USING IOT carried out by **SAHANA B METI** bearing USN [1SG19EE068], **PUNITHKUMAR M N** bearing USN [1SG20EE407], **RAKESH D R** bearing USN [1SG20EE409], **SHIVAREDDY N S** bearing USN [1SG120EE411], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.




Sign. of the Internal Guide
Mrs. PREETHA N P
Asst. Professor


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D


Signature of the Principal
Dr. H. Ramakrishna
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore-560 057

External Viva
Name of the examiners
1. Dayananda L. N
2. Swetha. G


Principal
Sapthagiri College of Engineering
1475, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057

Signature with date

24/8/23

24/8/23

SAPTHAGIRI COLLEGE OF ENGINEERING
Department of Electrical & Electronics Engineering



CERTIFICATE

Certified that the project work entitled INCORPORATING RESIDENTIAL SMART ELECTRIC VEHICLE CHARGING HOME ENERGY MANAGEMENT SYSTEMS is carried out by MYTHRI NAYAKA N S bearing USN [1SG19EE051], VINUTHA H R bearing USN [1SG19EE084], YUKTHI V bearing USN [1SG16EE086], SHREYA M bearing USN [1SG19EE900], bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Sign. of the Internal Guide

Mrs Malashree.G

Asst. Professor

Signature of the HOD

Dr. Rekha S N

Professor & H.O.D

Signature of the Principal

Dr. H. Ramakrishna

Principal

Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road,
Chikkasandra, Bangalore - 560 057.

External Viva

Name of the examiners

1. Dayananda.L N
2. Swetha.H

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

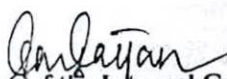
Signature with date


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled "ECO-FRIENDLY 3D PRINTER" is carried out by NAREN P VASIST bearing USN [1SG19EE053], P S GURU PRASAD bearing USN [1SG19EE055], PRAJWAL S bearing USN [1SG19EE059], VINAYAKA V bearing USN [1SG19EE082], bona fide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.


Sign. of the Internal Guide
Mrs. Supriya S
Asst. Professor


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D




Signature of the Principal
Dr. H. Ramakrishna
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
14/5, Hesaraghatta Main Road,
Chikkasandra, Bangalore - 560 057.

External Viva

Name of the examiners
1. Dayananda. L.N.
2. Swetha.y


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bangalore - 560 057.


Signature with date
 24/5/23
 24/5/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled **BATTERY MANAGEMENT SYSTEM** is carried out by **LIKHITH KUMAR R** bearing **USN [1SG19EE044]**, **PRAJWAL V** bearing **USN [1SG19EE060]**, **RANJITHA N** bearing **USN [1SG19EE063]**, **VIJAYALAKSHMI A BONGALE** bearing **USN [1SG19EE080]**, bonafide students of **Sapthagiri College of Engineering** in partial fulfilment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. It is certified that all corrections/suggestions indicated in the **Internal Assessment** have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the **Bachelor of Engineering Degree**.


Sign. of the Internal Guide
Mr. Gopinath K
Asst. Professor


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D

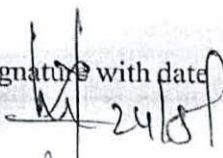


Signature of the Principal
Dr. H. Ramakrishna
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore-560 057

Dept. of Electrical and Electronics Engineering
Sapthagiri College of Engineering
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External Viva

Name of the examiners
1. **Dayananda. L.N**
2. **Swatha. U**


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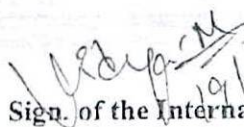
Signature with date

24/5/23

29/5/23

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

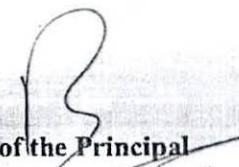
Certified that the project work entitled "SWITCH MODE POWER SUPPLY WITH SHORT CIRCUIT PROTECTION" is carried out by MANEESH R bearing USN [1SG19EE047], VISHWAS M bearing USN [1SG19EE085], SHIVARAJA M P bearing USN [1SG20EE410] bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.


19/5/23
Signature of the Internal Guide

Dr. Vidya M
Associate Professor


Signature of the HOD

Dr. Rekha S N
Professor & HOD
HOD


Signature of the Principal

Dr. H. Ramakrishna
Principal
Principal

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Signature with date


24/5/23