



SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU.

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)

(An ISO 9001:2015 and 14001:2015 certified institution)

Accredited by NAAC with 'A' Grade, Accredited by NBA

14/5, Chikkasandra, Hesaraghatta Main road, Bengaluru-560057.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

II YEAR MINI-PROJECT BATCHES


Batch no.	USN	Names of the Students	Project Title
A1	1SG21EE004 1SG21EE078 1SG21EE079 1SG21EE080	Anarghya. J Varsha.C Harish V Arvind V S	Password based circuit breaker using microcontroller.
A2	1SG21EE020 1SG21EE030 1SG21EE021 1SG21EE027	Lalith N Kishore Kumar Vathsala.B.K Veditha D.P	Fire Fighting Robot
A3	1SG22EE401 1SG22EE402 1SG22EE404 1SG21EE026	Bhoomika H R. Divya B C Kavya R Harsha K	Ultrasonic Radar system
A4	1SG22EE408 1SG21EE016 1SG22EE406 1SG22EE409	Meghana k Dhanush R Jyothi G R Mohammad sameer	Digital clock using 8051 Microcontroller
A5	1SG21EE005 1SG21EE031 1SG21EE020 1SG21EE009	Apoorva B Likitha H Kushal R Brunda K	Traffic light controller using Microcontroller
A6	1SG21EE022 1SG21EE024 1SG21EE029 1SG21EE086	Hemashree G K C Kushal Prasad Kushal S Yogitha K C	Automatic Toll tax system using Microcontroller
A7	1SG21EE002 1SG21EE015 1SG21EE017 1SG21EE087	Aishwarya ST Dhanalakshmi Gagana B Yuktha D	Range finder using ARDUINO
A8	1SG21EE012 1SG21EE084 1SG22EE405	Chinmaye Vishwanath Hithesh kumar	Thermometer controlled fan using microcontroller.

	1SG22EE400	Anil Kumar	
A9	1SG21EE013 1SG21EE010 1SG21EE085 1SG21EE081	Deekshith Kumar Chandan V Vivek Venkatesh Gowda S	Lane grass cutter
A10	1SG21EE034 1SG21EE023 1SG22EE407 1SG22EE410	M Aishwarya Javeria Huda Krishna Raja Shekhar Nagesh M S	Weather monitoring system using microcontroller
A11	1SG21EE033 1SG21EE025 1SG21EE008 1SG22EE403	Lohith MB Karthik H Bheema Reddy Bishwarup	Controlling light using ultrasonic and touch Sensor with ARDUINO.
A12	1SG21EE003 1SG21EE010 1SG21EE001 1SG22EE411	Ananya C Deepika M Abhishek Nikhil Anant Achari	Heart beat monitor using pulse sensor
A13	1SG21EE082 1SG21EE007 1SG21EE006 1SG21EE083	Vinay M Bharath B Bharathraj Vishwa C	RFID door lock system
B1	1SG22EE417 1SG21EE067 1SG21EE035	Shyam Sateesh Sneha B Madhushree MN	Antisleep alarm project for drivers using microcontrollers
B2	1SG21EE043 1SG22EE420 1SG21EE045 1SG21EE066	N.Sukrutha Vinod Kumar U Nandini N Shwetha.S	Railway accident prevention
B3	1SG21EE054 1SG22EE418 1SG21EE064 1SG21EE072	Punith N Suresh Sanjay H S Suman Kumar Choudhary	Smart dustbin
B4	1SG22EE414 1SG21EE057 1SG21EE075 1SG21EE077	Prasad Ganesh Uppar Rakesh G R Tejashree K Varalakshmi B R	Smoke detector using ARDUINO UNO
B5	1SG22EE413 1SG21EE061 1SG21EE065 1SG22EE422	Niranjan M Phalke Sahana S Joshi Shravani.S Yogesh Ganapati Gouda	Automatic irrigation system
B6	1SG22EE415 1SG21EE047 1SG21EE049 1SG22EE423	Rakshith T C Nayana. L Nithyashree. N Yogesh S	Density based traffic signal system using microcontroller

B7	1SG22EE421 1SG21EE044 1SG21EE048 1SG21EE040	Vinutha Nagapragna.H Nikita.P Maruti. S	Automatic room lighting system Using ARDUINO
B8	1SG21EE059 1SG21EE058 1SG21EE056 1SG21EE073	Roshan Jogi Rakesh P Rakesh BS Sumanth N M	Robot vacuum cleaner
B9	1SG21EE050 1SG21EE046 1SG21EE076 1SG21EE038	Nuthan M. Naveen Kumar BC Tharun R Manoj M	Student SMS n biometric attendance system
B10	1SG21EE070 1SG21EE036 1SG21EE053 1SG21EE037	Sudeep Manoj CN Punith S G Manoj Gowda GV	Home automation
B11	1SG21EE060 1SG21EE062 1SG21EE416 1SG21EE071	Roshni N Kumar Saniya Sheikh Ranjith Kumar K Suhas HO	DC motor speed control
B12	1SG21EE042 1SG21EE067 1SG22EE412 1SG21EE055	Monika K V Sowmya S R Ningappa Purvik	Wireless red signal alerting for trains
B13	1SG21EE051 1SG21EE052 1SG21EE074 1SG22EE419	Prathama.R Priyanka.S Sunitha Vanitha	Water level monitoring system



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


HOD, EEE

PROF & HOD

Department of Electrical & Electronics Engineering
Sapthagiri College of Engineering
Bengaluru - 560057

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled "PASSWORD BASED CIRCUIT BREAKER USING MICROCONTROLLER" is carried out by HARISH V bearing USN [1SG21EE020], ANARGHYA bearing USN [1SG21EE004], VARSHA C bearing USN [1SG21EE078], ARAVIND V S bearing USN [1SG22EE401], 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

External Viva

Name of the examiners

1. Dr. H. Raghavendra
2. Malashree G.

Signature with date

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

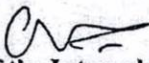
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
Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the mini project work entitled "FIRE FIGHTING ROBOT" carried out by KISHORE KUMAR S bearing USN [1SG21EE027], LALITH N bearing USN [1SG21EE030], VATHSALA B K bearing USN [1SG21EE079], VEDITHA D P bearing USN [1SG21EE080], 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.

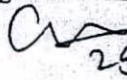
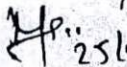

Sign. of the Internal Guide
Mr. Raghavendra G
Assoc.Professor


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


Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners
1. Dr. H. Raghavendra
2. Malashree G.

Signature with date
 25/9/23
 25/9/23

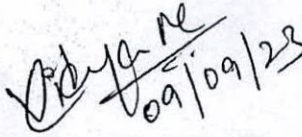

Principal
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Department of Electrical & Electronics Engineering
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


CERTIFICATE


Certified that the project work entitled **ULTRA SONIC RADAR SYSTEM** is carried out by HARSHA K bearing USN [1SG21EE021], KAVYA R bearing USN [1SG21EE026], BHOO MIKA HR bearing USN [1SG22EE402], DIVYA BC bearing USN [1SG22EE404], 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. Vidya M
Assoc. Professor


Signature of the HOD


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


Signature of the Principal

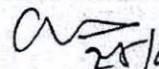
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners
1. Dr. H. Ramakrishna
2. Malashree .G


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

Signature with date


25/9/23
25/9/23



Department of Electrical & Electronics Engineering

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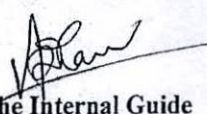
An ISO 9001:2015 & 14001:2015 certified institution


Accredited by NAAC with 'A' grade


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

CERTIFICATE

Certified that the project work entitled DIGITAL CLOCK USING 8051 MICRONROLLER is carried out by DHANUSH R bearing USN [1SG21EE016], JYOTHI GR bearing USN [1SG22EE406], MEGHANA K bearing USN [1SG22EE408], MOHAMMED SAMEER bearing USN [1SG22EE409], 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 mini-project report has been approved as it satisfies the academic requirements in respect of mini-project work prescribed for the Bachelor of Engineering Degree.


Sign. of the Internal Guide
Mr. A DHAMODARAN
Assistant Professor


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



Signature of the Principal
Dr. H. Ramakrishna
Principal


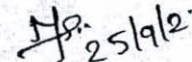
External Viva-Voce Examination:

Name of the examiners

1. Dr. H. Raghavendra
2. Malashree G.

Signature with date


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

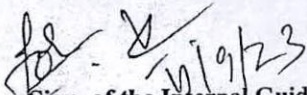
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
Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled traffic light controller using microcontroller carried out by **APOORVA B** bearing USN [1SG21EE005], **BRUNDA K** bearing USN [1SG21EE009], **KUSHAL R** bearing USN [1SG21EE028], **LIKHITHA H** bearing USN [1SG22EE031], 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.

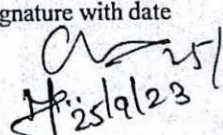

Sign. of the Internal Guide
Mrs. ASHWINI C
Asst. Professor


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


Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners
1. **Dr. H. Ramakrishna**
2. **Malashree G.**

Signature with date

25/9/23

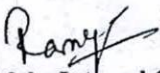

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
Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the mini project entitled "AUTOMATIC TOLL TAX SYSTEM USING MICROCONTROLLER" is carried out by HEMASHREE G (1SG21EE022), K C KUSHAL PRASAD (1SG21EE024), KUSHAL S (1SG21EE029), YOGITHA KC (1SG21EE086), 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 in the Internal Assessment have been incorporated in the report deposited. The mini project report has been approved as it satisfies the academic requirements in respect of mini project 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
PRG HOD

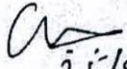

Signature of the Principal
Dr. H. Ramakrishna
Principal

Department of Electrical & Electronics Engineering
Sapthagiri College of Engineering
Bengaluru - 560057

Name of the examiners
1. Dr. H. Raghavendra
2. Malashree G.


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

Signature with date



25/9/23
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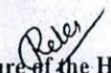
Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING

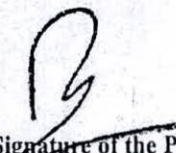


CERTIFICATE

Certified that the project work entitled **"RANGE FINDER USING ARDUINO"** is carried out by **AISHWARYA S T** bearing USN [ISG21EE004], **DHANALAKSHMI N C** bearing USN [ISG21EE0015], **GAGANA B** bearing USN [ISG21EE017], **YUKTHA D** bearing USN [ISG21EE087], 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

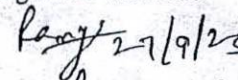


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D


Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

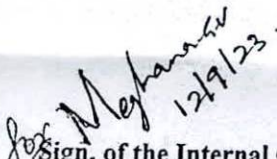
Name of the examiners
1. **RAMYA M**
2. **K. Gopalesh**



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


Signature with date

27/9/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING
CERTIFICATE

Certified that the project work entitled **Thermometer controlled fan using microcontroller** is carried out by **CHINMAY E GOWDA** bearing USN [1SG21EE012], **VISHWANATH S** bearing USN [1SG21EE084], **ANIL KUMAR TP** bearing USN [1SG21EE400], **HITHESH KUMAR S** bearing USN [1SG22EE405], 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 NP
Asst. Professor


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

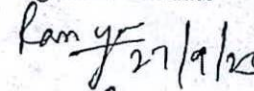


Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners

1. **RAMYA M**
2. **K. Gopabalan**

Signature with date


27/9/23

28/9/23



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


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled Lawn Grass Cutter is carried out by **CHANDAN V** bearing **USN [1SG21EE010]**, **DEEKSHITH KUMAR S** bearing **USN [1SG21EE013]**, **VENKATESH GOWDA S** bearing **USN [1SG21EE081]**, **VIVEK P** bearing **USN [1SG21EE085]**, 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 A V
Asst. Professor


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

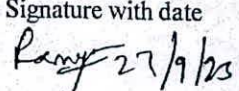
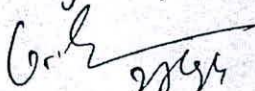

Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners

1. **RAMYA M**
2. **K. Gopinath**


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


Signature with date
 27/9/23


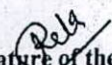
Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled Weather Monitoring System Using Microcontroller is carried out by JAVERIA HUDA bearing USN [1SG21EE023], M AISHWARYA bearing USN [1SG21EE034], KRISHNA RAJA SHEKAR bearing USN [1SG21EE407], NAGESH M S bearing USN [1SG22EE410], 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

External Viva

Name of the examiners
1. RAMYA.M
2. K. Gopshethu


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 077

Signature with date
Ramya 27/7/23
G. S. 27/7/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled CONTROLLING LIGHT USING ULTRASONIC AND TOUCH SENSOR WITH ARDUINO carried out by


BHEEMA REDDY B bearing USN [1SG21EE008], KARTHIK H bearing USN [1SG21EE025], LOHITH M B bearing USN [1SG21EE033], BISHWARUP CHAKRABORTY bearing USN [1SG21EE403], 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 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

External Viva

Name of the examiners

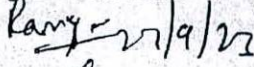

1. RAMYA-M
2. G. Gopinath



Principal

Sapthagiri College of Engineering
14/5, Chikkasandra

Signature with date


14/9/22


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SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled heart beat monitor using pulse sensor is carried out by ABHISHEK V bearing USN [1SG21EE001], ANANYA C bearing USN [1SG21EE003], DEEPIKA M bearing USN [1SG21EE014], NIKHIL ANANT ACHARI bearing USN [1SG22EE411], 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. Supriya Sajjan

Asst. Professor

Signature of the HOD

Dr. Rekha S N

Professor & H.O.D

Signature of the Principal

Dr. H. Ramakrishna

Principal

External Viva

Name of the examiners

1. RAMYA M

2. Dr. Gopikrishna

Principal

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

Signature with date

Ramya 27/9/22

G. Gopikrishna

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE


Certified that the project work entitled "RFID BASED DOOR LOCK SYSTEM" is carried out by BHARAT RAJ CHANDRAKANT KALAMADI bearing USN [1SG21EE006], BHARATH B bearing USN [1SG21EE006], VINAY M bearing USN [1SG21EE082], VISHWA C bearing USN [1SG21EE083], 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. RESHMA
Asst. Professor


Signature of the HOD

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

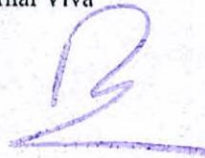

Signature of the Principal

Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners

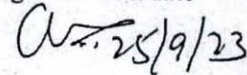
1. Dr. H. Raghavendra
2. Malashree G.

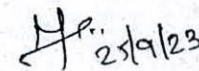


Principal

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

Signature with date

 25/9/23

 25/9/23

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled ANTISLEEP ALARM PROJECT FOR DRIVERS USING MICROCONTROLLER is carried out by SNEHA B bearing USN [ISG21EE067], SHYAM SATHEESH bearing USN [ISG21EE417], MADHUSHRE E M N bearing USN [ISG21EE035], 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

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

Signature of the HOD

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

Signature of the Principal

B
Dr. H. Ramakrishna
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

External Viva

Name of the examiners

1. Dr. Vidya M
2. Malashree G.

B

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

Signature with date


Vidya
21/9/23
Ms.
21/9/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING

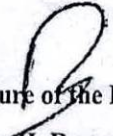


CERTIFICATE

Certified that the project work entitled **Railway accident prevention** is carried out by N SUKRUTHA bearing USN [1SG21EE043], NANDINI N bearing USN [1SG21EE045], SHWETHA bearing USN [1SG21EE066], VINODH KUMAR bearing USN [1SG22EE420], 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.

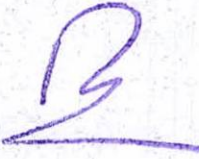

Sign. of the Internal Guide
Dr. Raghavendra G
Assoc. professor

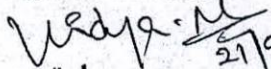


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D


Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners
1. Dr. Vidya M
2. Malashree G


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

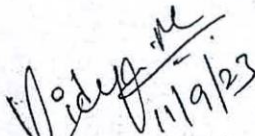
Signature with date

21/9/23

21/9/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled SMART DUSTBIN USING ARDUINO is carried out by PUNITH N bearing USN [1SG21EE054], SANJAY HS bearing USN [1SG21EE064], SUMAN KUMAR CHOUDHARY bearing USN [1SG21EE072], SURESH BM bearing USN [1SG22EE418], 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. VIDYA M
Associate Professor


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

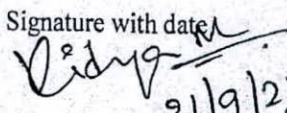
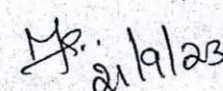

Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners

1. Dr. Vidya M
2. Malashree G


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

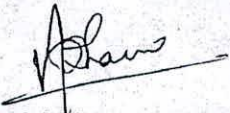
Signature with date

21/9/23

21/9/23

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING


CERTIFICATE




Certified that the project work entitled **SMOKE DETECTOR USING ARDUINO UNO** is carried out by **RAKESH G R** bearing USN [1SG21EE057], **TEJASHREE K** bearing USN [1SG21EE075], **VARALAKSHMI B R** bearing USN [1SG21EE077], **PRASAD GANESH UPPAR** bearing USN [1SG22EE414], 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


Signature of the HOD
Dr. Rekha S N

Professor & H.O.D

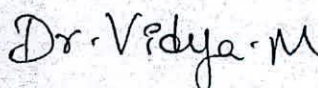

Signature of the Principal
Dr. H. Ramakrishna

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

External Viva

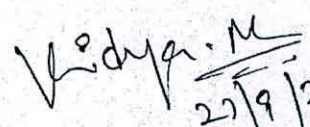
Name of the examiners


1.


Dr. Vidya M

2. Malashree G.

Signature with date


27/9/23
21/9/23

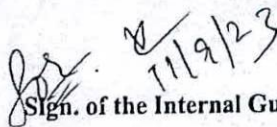

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled 'AUTOMATIC IRRIGATION SYSTEM' is carried out by SAHANA S JOSHI bearing USN [1SG21EE061], SHRAVANI S bearing USN [1SG21EE065], NIRANJAN M PHALKE bearing USN [1SG22EE413], YOGESH G GOUDA bearing USN [1SG22EE422], 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. C
Asst. Professor


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

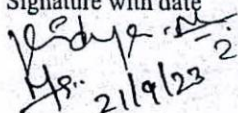

Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners

1. Dr. Vidya M
2. Malashree G


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

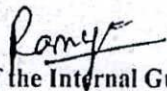
Signature with date

Dr. Vidya M
21/9/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING

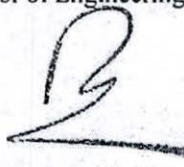


CERTIFICATE

Certified that the project work entitled **DENSITY BASED TRAFFIC SIGNAL SYSTEM USING MICROCONTROLLER** is carried out by NAYANA.L bearing USN [1SG21EE047], NITHYA SHREE.N bearing USN [1SG21EE049], RAKSHITH.T.C bearing USN [1SG21EE415], YOGESH.L bearing USN [1SG22EE423], 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

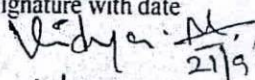


Signature of the HOD
Dr. Rekha S N
Professor & H.O.D


Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners

1. **Dr. Vidya M**
2. **Malashree G.**

Signature with date

21/9/23

21/9/23


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

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certificate that the project work entitled AUTOMATIC ROOM LIGHTING SYSTEM USING ARDUINO is carried out by MARUTHI S bearing USN [1SG21EE040], NAGAPRAGNA H bearing USN [1SG21EE044], NIKITHA P bearing USN [1SG21EE048], VINUTHA C bearing USN[1SG22EE0421], 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.

for 12/9/23
Sign. of the Internal Guide
Mrs. Preetha N P
Asst. Professor

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

[Signature]
Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners
1. Dr. Vidya . M
2. A. Dharmasaran

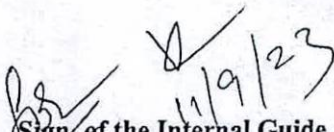
[Signature]
Signature with date
Vidya . M
22/9/23
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560 057

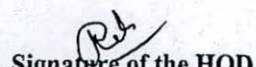
Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work is **ROBOT VACCUM CLEANER** carried out RAKESH B S bearing USN [1SG21EE056], RAKESH P bearing USN [1SG21EE058], ROSHAN JOGI A S bearing USN [1SG21EE059], SUMANTH N M bearing USN [1SG21EE073], 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 Preetha N P
Asst. Professor


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

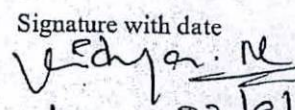
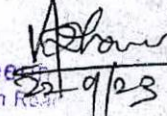

Signature of the Principal
Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners

1. **Dr. Vidya M**
2. **A. Dharmodaran**


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

Signature with date

Dr. Vidya M
22/9/23

22/9/23

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled **STUDENT SMS AND BIOMETRIC ATTEDENCE MANGEMENT SYSTEM** is carried out by MANOJ M bearing USN [1SG21EE038], NAVEEN KUMAR B C bearing USN [1SG21EE046], NUTHAN M bearing USN [1SG21EE050], THARUN R bearing USN [1SG22EE076], 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

Signature of the HOD

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

Signature of the Principal

Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners

1. Dr. Vidya M
2. A. Dharmodaran

Principal

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

Signature with date


Vidya M
22/9/23
A. Dharmodaran
22/9/23


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the mini project entitled "HOME AUTOMATION" is carried out by MANOJ C N (1SG20EE036), MANOJ GOWDA G V (1SG20EE037), PUNITH S G (1SG20EE053), SUDEEP (1SG20EE070), 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 in the Internal Assessment have been incorporated in the report deposited. The mini project report has been approved as it satisfies the academic requirements in respect of mini project 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 & HOD

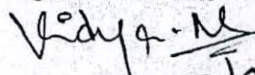

Signature of the Principal
Dr. H. Ramakrishna
Principal

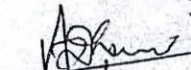
External Viva

Name of the examiners

1. Dr. Vidya. M
2. A. Dharmodaran

Signature with date


22/9/23


22/9/23



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


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled **DC MOTOR SPEED CONTROL** is carried out by ROSHNI N KUMAR bearing USN [ISG21EE060], SANIYA SHEIKH bearing USN [ISG21EE062], SUHAS H O bearing USN [ISG21EE071], RANJITH KUMAR K bearing USN [ISG22EE416], 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
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

External Viva

Name of the examiners
1. **Dr. Vidya . M**
2. **A. Dharmodasan**


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

Signature with date
Vidya . M
22/9/23
A. Dharmodasan
22/9/23

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled Water Level Monitoring System carried out by Prathama R bearing USN [1SG21EE051], Priyanka S bearing USN [1SG21EE052], Sunitha S bearing USN [1SG21EE074], Vanitha DS bearing USN [1SG22EE419], 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. Reshma
Asst. Professor

Signature of the HOD

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

Signature of the Principal

Dr. H. Ramakrishna
Principal

External Viva

Name of the examiners

1. Dr. Vidyam
2. Malashree G.

Principal

Sapthagiri College of Engineering
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Signature with date

Vidyam
21/9/23
Ms.
21/9/23