

SAPTHAGIRI COLLEGE OF ENGINEERING

A UNIT OF SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST
(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)
(Accredited by NAAC with "A" Grade) (Accredited by NBA for ECE, CSE, ISE, ME & EEE)
(An ISO 9001 - 2015 & ISO 14001 - 2015 Certified Institution)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057. Phone: 080 - 28372800
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FINAL YEAR PROJECT BATCHES

SL.NO	USN	STUDENTS NAME	TITLE OF PROJECT
1.	1SG21EE412	SUDARSHAN	Autonomous Driving delivery robot
	1SG21EE413	YESHWANTH B R	
	1SG20EE021	NITESH S S	
	1SG20EE022	POOJA J R	
2	1SG20EE016	MADHUSUDAN K J	Amphibious Vehicle
	1SG20EE012	HEMANTH	
	1SG20EE032	SUMANTH Y	
	1SG20EE003	ANANYA	
3	1SG20EE037	VISHWANATH GOWDA M V	Eco-brake electric vehicle
	1SG20EE039	YESHWANTH GOWDA S M	
	1SG20EE015	HARSHITHA M V	
	1SG20EE024	PRERANA SHARMA	
4	1SG21EE405	UMAR HUSSAIN	Automatic fault detection and clearing system in EV
	1SG20EE006	DEEPA SHELKEY	
	1SG20EE005	CHETANA N	
	1SG21EE409	PRAJWAL S M	
5	1SG21EE402	TULAJIT SINGH	PLC based color sorting system using conveyor
	1SG20EE010	GANAVI	
	1SG21EE408	PRAJWAL A	
	1SG20EE007	DIVYASHREE A H	
6	1SG20EE013	JAYASHREE B G	Electricity generation by non-bio-degradable waste and its applications
	1SG20EE020	NANDINI N	
	1SG20EE031	SUJAY R	
	1SG20EE033	USHA	
7	1SG20EE002	AKSHATHA B	Dual axis solar power tracker system
	1SG20EE034	VARSHA K V	
	1SG20EE011	HARSHITH M K	
	1SG20EE014	KAVYA	
8	1SG20EE018	MANJUNATH B P	Magnetic Accelerator
	1SG20EE019	MOHAN S	
	1SG20EE023	PRAGATHI N R	
	1SG20EE028	SIRALI SINGH	
9	1SG20EE004	CHETHAN KUMAR G	Surveillance MorphoBot
	1SG20EE009	GAGAN S P	
	1SG20EE001	ADITHYA HAVALI	
	1SG20EE008	GAGAN M N	
10	1SG20EE025	RAJESHWARI C H	Home automation using raspberry Pi
	1SG20EE038	YASHASWINI S	
	1SG21EE400	BHARATH B S	

Principal
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

	1SG21EE407	PALLAVI N	
11	1SG20EE027	SATVIK	Sign Language to Speech Conversion using Arduino with 4 flux sensors
	1SG20EE035	VINUTH H S	
	1SG20EE036	VINUTH KUMAR A	
	1SG21EE403	KESHAV REDDY	
12	1SG21EE404	MAHESH	Object sorting Automation system
	1SG21EE411	SHARON	
	1SG18EE024	CHETAN G N	
13	1SG20EE017	MADHUSUDAN V	Power generation using waste water
	1SG21EE401	DARSHAN	

Principal
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Bangalore-560 057


HOD EEE
PROF & HOD
Department of Electrical & Electronics Engineering
Sapthagiri College of Engineering
Bangalore - 560057


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project work entitled **Autonomous Driving Delivery Robot** carried out by **NITEESH S S** bearing USN [1SG20EE021], **POOJA J R** bearing USN [1SG20EE022], **SUDARSHAN B** bearing USN [1SG21EE412], **YASHAVANTH B R** bearing USN [1SG21EE413], 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 **2023-24**. 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
Ms. Prakruthi Jain Y S
Assistant Professor


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


Signature of the Principal
Dr. H. Ramakrishna
Principal

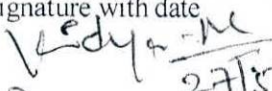

PROF & HOD
Department of Electrical & Electronics Engineering
Sapthagiri College of Engineering
Bangalore - 560057


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

External Viva

Name of the examiners

1. **Dr. Vidya. M**
2. **Dr. R. Prabash.**


Signature with date

27/5/24



SAPTHAGIRI COLLEGE OF ENGINEERING
Department of Electrical & Electronics Engineering



CERTIFICATE

Certified that the project work entitled **Amphibious Vehicle** carried out by ANANYA R bearing USN [1SG20EE003], HEMANTH S bearing USN [1SG20EE012], MADHUSUDANA K J bearing USN [1SG20EE016], SUMANTH Y bearing USN [1SG20EE032], 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 **2023-24**. 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
PROF & HOD


Signature of the Principal
Dr. H. Ramakrishna
Principal

Department of Electrical & Electronics Engineering,
Sapthagiri College of Engineering
Bangalore - 560057

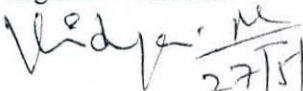

External Viva


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

Name of the examiners

1. Dr. Vidyam
2. Dr. R. Raghav

Signature with date


27/5/24


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled ECO-BRAKE ELECTRIC VEHICLE is carried out by **M V HARSHITHA** bearing USN [1SG20EE015], **PRERNA SHARMA** bearing USN [1SG20EE024], **VISHWANATH GOWDA M V** bearing USN [1SG20EE037], **YESHWANTH GOWDA S M** bearing USN [1SG20EE039], 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 **2023-24**. 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.

Vidya M
15/5/24
Sign. of the Internal Guide

Dr. Vidya M
Asso. Professor

Rekha S N
15/5/24
Signature of the HOD

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

H. Ramakrishna
Signature of the Principal

Dr. H. Ramakrishna
Principal

Principal

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

External Viva

Name of the examiners

1. Dr. Vidya M
2. Dr. R. Rakesh.

Signature with date


Vidya M
27/5/24
R. Rakesh


SAPTHAGIRI COLLEGE OF ENGINEERING
Department of Electrical & Electronics Engineering




CERTIFICATE

Certified that the project work "AUTOMATIC FAULT DETECTION AND CLEARING SYSTEM IN EV" is carried out by CHETHANA N bearing USN [1SG20EE005], S DEEPA SHELKEY bearing USN [1SG20EE006], MZ UMAR HUSSAIN bearing USN [1SG21EE405], PRAJWAL S M bearing USN [1SG21EE409], the 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 2023-24. 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

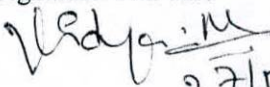
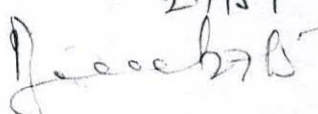
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Principal
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Bangalore-560 057

Name of the examiners

1. Dr. Vidya M
2. Dr. R. Prakash

Signature with date


27/5/24


Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled **PLC BASED COLOR SORTING SYSTEM USING CONVEYOR** carried out by **DIVYA SHREE A H** bearing USN [1SG20EE007], **GANAVI L** bearing USN [1SG20EE010], **HUIDROM TULAJIT SINGH** bearing USN [1SG21EE0402], **P R A J W A L A** bearing USN [1SG21EE408], 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 **2023-24**. 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.

Pavithra G
15/5/24.
Sign. of the Internal Guide

Ms. Pavithra G

Asst. Professor

Rekha
Signature of the HOD

Dr. Rekha S N

Professor & H.O.D.

R
Signature of the Principal

Dr. H. Ramakrishna

Principal

R
Principal

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Chikkasandra, Hesaraghatta Road,

External Viva Bangalore-560 057

Name of the examiners

1. *Dr. Vidya. M*
2. *Dr. R. Prakash.*

Signature with date


Vidya M
28/5/24
Prakash
27/5


SAPTHAGIRI COLLEGE OF ENGINEERING
Department of Electrical & Electronics Engineering




CERTIFICATE

Certified that the project work "ELECTRICITY GENERATION BY NON-BIODEGRADABLE WASTE AND ITS APPLICATIONS" is carried out by JAYASHREE B G bearing USN [ISG20EE013], NANDINI N bearing USN [ISG20EE020], SUJAY R bearing USN [ISG20EE031], USHA R bearing USN [ISG20EE033], the 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 2023-24. 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
Principal
Sapthagiri College of Engineering
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External Viva-Voce

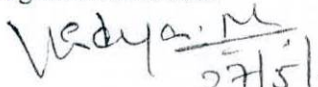
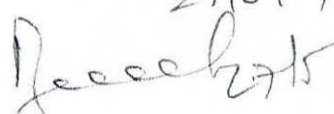
Name of the examiners

Dr. Vidya. M

Dr. R. Deekash.


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

Signature with date

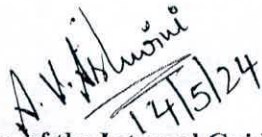

27/5/24



SAPTHAGIRI COLLEGE OF ENGINEERING
Department of Electrical & Electronics Engineering




CERTIFICATE

Certified that the project work entitled **Dual Axis Solar Power Tracker System** carried out by **AKSHATHA B** bearing USN [1SG20EE002], **Harshith M K S** bearing USN [1SG20EE011], **KAVYA S JEV BARGI** bearing USN [1SG20EE014], **VARSHA K V** bearing USN [1SG20EE034], 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 **2023-24**. 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. 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



Principal
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Bangalore-560 057

External Viva

Name of the examiners

1. **Dr. KUSUMADEVI GH.**
2. **Dr. Ashwini A.V**

Signature with date


28/5/24

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled **Magnetic Accelerator** carried out by **MANJUNATH B P** bearing USN [1SG20EE018], **MOHAN S** bearing USN [1SG20EE019], **PRAGATHI N R** bearing USN [1SG20EE023], **SIRALI SINGH** bearing USN [1SG20EE028], 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 **2023-24**. 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

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

External Viva

Name of the examiners

1. **Dr. Kusumadeviah**
2. **Dr. Ashwini A V**

Signature with date

Dr. Kusumadeviah
28/5/24

Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING



CERTIFICATE

Certified that the project work entitled **SURVEILLANCE MORPHOBOT** is carried out by **ADITYA A HAVALI** bearing USN [1SG20EE001], **CHETHAN KUMAR G** bearing USN [1SG20EE004], **GAGAN M N** bearing USN [1SG20EE008], **GAGAN S PATAGAR** bearing USN [1SG20EE009], 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 **2023-24**. 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

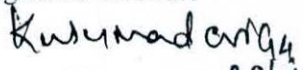
External Viva


Principal
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Name of the examiners

1. **Dr. Kusumadev R G H.**
2. **Dr. Ashwini. A. V**

Signature with date


28/5/24

SAPTHAGIRI COLLEGE OF ENGINEERING
Department of Electrical & Electronics Engineering



CERTIFICATE

Home Automation using Raspberry Pi

Certified that the project work entitled [^]is carried out by **RAJESHWARI C H** bearing USN [1SG20EE025], **YASHASWINI S** bearing USN [1SG20EE038], **BHARATH B S** bearing USN [1SG21EE400], **PALLAVI N** bearing USN [1SG21EE407], 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 **2023-24**. 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.

Rekha
Sign. of the Internal Guide

Mrs. Supriya Sajjan

f Asst. Professor

Rekha
Signature of the HOD

Dr. Rekha S N

Professor & H.O.D

B
Signature of the Principal

Dr. H. Ramakrishna

Principal
Principal

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Bangalore-560 057

B
External Viva

Name of the examiners

1. **DR. KUSUMADE V B H.**
2. **Dr. Ashwini P V**

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

Signature with date

Kusumade V B H
28/8/24

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Accredited by NAAC with 'A' grade

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



CERTIFICATE

certified that the project work entitled **Sign language to speech conversion using Arduino** carried out by **SATHVIK .H .R** bearing USN [1SG20EE027], **VINUTH. H. S** bearing USN [1SG20EE035], **VINUTH KUMAR.A** bearing USN [1SG20EE036], 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 **2023-24**. 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.

Meghana - G.V.

Sign. of the Internal Guide

Ms. Meghana. G. V

Asst. Professor

Rekha
Signature of the HOD

Dr. Rekha S N

Professor & H.O.D.

H. Ramakrishna
Signature of the Principal

Dr. H. Ramakrishna

Principal

H. Ramakrishna

Principal

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

1. DR. KUSUMADEVI G.H.
2. DR. ASHWINI A.V

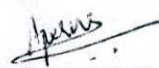
H. Ramakrishna
29/5/24
H. Ramakrishna
28/5/24

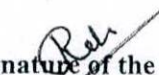
SAPTHAGIRI COLLEGE OF ENGINEERING
Department of Electrical & Electronics Engineering

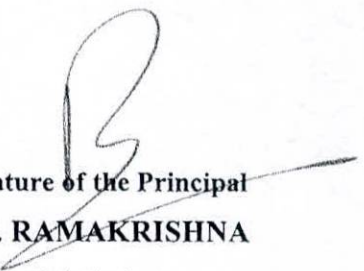


CERTIFICATE

Certified that the project phase-1 work entitled **Object Sorting Automation System** is carried out by **RAJINI A J** bearing USN [1SG18EE408], **KESHAV REDDY** bearing USN [1SG21EE403], **MAHESH M** bearing USN [1SG21EE404], **SHARON P** bearing USN [1SG21EE411], 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 **2023-24**. 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. APARNA DAS
Assistant professor


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


Signature of the Principal
Dr. H. RAMAKRISHNA
Principal


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

Name of the examiners
1. **Dr. KUSUMADEV H.**
2. **Dr. Ashwini A. V**


Signature with date
Kusumadev H.
29/5/24
28/5/24

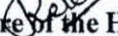
Department of Electrical & Electronics Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING




CERTIFICATE

Certified that the project phase-I work entitled **POWER GENERATION USING WASTE WATER** is carried out by **CHETHAN GN** bearing USN [1SG18EE024], **MADHUSUDHAN V** bearing USN [1SG20EE017], **DARSHAN NG** bearing USN [1SG21EE0401], 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 **2023-24**. 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. Deepa Bavidhodi
Asst. Professor


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

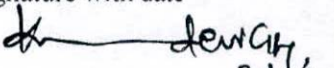


Signature of the Principal
Dr. H. Ramakrishna
Principal


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

Name of the examiners

1. Dr. KUSUMADEV D G H
2. Dr. Ashwini A V

Signature with date


29/5/24

28/5/24