



SAPTHAGIRI COLLEGE OF ENGINEERING

Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE-New Delhi)
 Accredited by NAAC with "A" Grade and Accredited by NBA for CSE, ECE, EEE, ISE and ME)
 (ISO 9001:2015 & ISO 14001:2015 Certified Institute)

#14/5, Hesarghatta Main Road, Chikkasandra, Bengaluru, Karnataka -560057

DEPARTMENT OF MECHANICAL ENGINEERING

Project Batch List -AY 2022-23

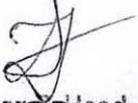
Batch No	Name of the Student	USN	Guide	Project Title
1	LOKESH L	1SG20ME411	Dr. Tulsidas D	DESIGN & FABRICATION OF ENERGY TREE
	NAGABHUSHAN N	1SG20ME412		
	CHEZHAN B	1SG20ME406		
	PURUSHOTHAM G S	1SG20ME415		
2	SHIVA PRASAD H N	1SG19ME052	Prof. A M Mahesha	FABRICATION OF ELECTRIC PODDER TILLER
	AJITH S	1SG19ME003		
	NIKHIL R	1SG19ME032		
	YASHWANTH K	1SG19ME071		
3	PRAMODKUMAR H	1SG20ME414	Prof.Chethan B P	INDUSTRY PIPE CLEANING ROBOT
	CHEZHAN KUMAR S	1SG20ME407		
	ANKUSH G	1SG20ME401		
	YESHWANTH KUMAR B	1SG20ME420		
4	PRATEEK P JIGALORE	1SG19ME039	Dr. Basvaraju S	MATERIAL OPTIMIZATION OF AIRCRAFT WING
	NRUPADA RAMESH	1SG19ME036		
	SANTHOSH S	1SG19ME050		
	SAGAR T	1SG19ME048		
5	ASHWIN PURUSHOTHAM	1SG19ME009	Dr. R .G Deshpande	3-AXES CNC MACHINE
	CHRISTO KOSHY THOMAS	1SG19ME013		
	MOHAMMED JAVED	1SG19ME028		
	AKASH GOWDA N	1SG19ME005		
6	AKASH B N	1SG20ME400	Prof. Ramkumar M	DOMESTIC STOVE USING WASTE OIL
	BHOOSHAN NACHAPPA	1SG20ME404		
	PRAJWAL C K	1SG20ME413		
	NIRANJAN V	1SG19ME034		
7	RAVEENDRA	1SG20ME416	Prof. Mahesh S	ULTRA-SMALL WATER POWER GENERATION
	SANTHOSH N	1SG20ME417		
	SRINIVAS SK	1SG20ME418		
	THARUN KUMAR N H	1SG20ME419		
8	ARAVIND M	1SG19ME008	Prof. Ramkumar M	AUTOMATED LAKE CLEANER
	DILIP KUMAR N R	1SG19ME016		
	GURUCHARAN S	1SG19ME017		
	HARISH G	1SG19ME018		
9	MOHAMMED MAAZ	1SG19ME029	Dr. Basvaraj Ganiger	COMPRESSED AIR ENGINE
	NEHA S GOWDA	1SG19ME031		
	MD ASHIK ANSARI	1SG19ME027		

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10	ABIN JOSE	1SG19ME001	Dr. Tulsidas D	ELECTRIC GO-KART
	CLEMENT WILFRED WEIDLE	1SG19ME014		
	DEEPAK CHAUHAN	1SG19ME015		
	JEEVANKUMAR H	1SG19ME023		
11	HEMANTH H N	1SG19ME021	Prof. Ramesh N G	360 DEGREE ROTATING FIRE PROTECTION
	KARTHIK N	1SG19ME024		
	ANIRUDDHA M	1SG19ME007		
	CHARITH A	1SG19ME012		
12	ROOPESH R	1SG19ME045	Dr. R .G Deshpande	IMPROVING EFFICIENCY OF PV CELL
	NIRANJAN V	1SG19ME033		
	KUSHAL V	1SG19ME025		
	AKASH B	1SG19ME004		
13	TEJAS D	1SG19ME063	Prof. Anil kumar P R	DESIGN & FABRICATION OF ELECTRIC POWER TILLER
	THARUN K	1SG19ME065		
	RAHUL BHIMANNA AROLI	1SG19ME042		
	SHYAM PV GOWDA	1SG19ME057		
14	SANGEETH KUMAR S	1SG19ME049	Dr. Tulsidas D	3D PRINTING MACHINE
	SADHU	1SG19ME047		
	SHASHANK K C	1SG19ME051		
	CHANNABASAPPA D V	1SG20ME405		
15	ARUN P	1SG20ME402	Dr. Basvaraj Ganiger	DESIGN & FABRICATION OF BOX TRANSPORT MECHANISM
	HARSHITH H ACHARYA	1SG20ME408		
	HRITHIK B	1SG20ME409		
	KAUSHIK P	1SG20ME410		
16	ASHWIN R	1SG19ME010	Prof. Ramesh N G	FABRICATION OF BLADELESS WIND TURBINE
	NITHIN C	1SG19ME035		
	VINAY S	1SG19ME069		
	YASHAS S	1SG19ME070		
17	RAGHAV RAMESH	1SG19ME040	Prof.Chethan B P	ELECTROMECHANICAL ACTIVE SUSPENSION SYSTEM
	RUDRESH S	1SG19ME046		
	SHREE SRINIVASA KALAISELVA SHREYAS S	1SG19ME053		
	RASHIKA	1SG19ME900		
18	PRAJWAL B M	1SG19ME037	Prof. Anil kumar P R	CATTLE SHED CLEANING & COLLECTING MACHINE
	U P K SWAMY	1SG19ME066		
	THARUN N	1SG19ME072		
	RAJESH M	1SG19ME044		
19	SOHAN DESOUZE	1SG18ME080	Prof. Ramkumar M	FABRICATION OF VORTEX TYPE ROCKET STOVE
	JASHWANTH YADAV	1SG18ME036		
	NARAYANA SWAMY K L	1SG18ME055		
	NISHANTH K	1SG18ME056		
20	HARSHITH A J	1SG19ME073	Prof. Nataraj H N	TWO WHEEL FORK-LIFT FOR INDUSTRY WAREHOUSES
	PRAJWAL N	1SG18ME059		
	SUHAS M	1SG18ME082		

	SYED HUSSAIN	1SG19ME061		
21	SHRISH S DIGRAJ	1SG19ME056	Prof. A M Mahesha	DESIGN & FABRICATION OF ELECTRIC SCOOTER
	THARUN G	1SG19ME064		
	VARSHITH J GOWDA	1SG19ME067		
	VIKAS GOWDA U T	1SG19ME068		
22	BADRISH S	1SG19ME011	Prof. Pramod S V	MULTIPURPOSE AGRICULTURAL VEHICLE
	HARISH K	1SG19ME019		
	HARSHITH GOWDA D S	1SG19ME020		
	JAYANTH B	1SG17ME032		
23	LOKESH GOWDA H M	1SG19ME026	Prof. Ramesh N G	FABRICATION OF COMPOSITE MATERIAL
	SUDEEP R	1SG19ME059		
	PRAJWAL S REDDY	1SG19ME038		
	RAHUL B CHOUDHARY	1SG19ME041		
24	RAHUL H M	1SG19ME043	Dr. Basvaraju S	AUTOMATED GATE VALVE USING WASTE PLASTIC
	SHREYAS KUMAR AS	1SG19ME054		
	SHREYAS R	1SG19ME055		
	SOWRABHA R S	1SG19ME058		
25	BHARATH V	1SG20ME403	Prof. Mohan A E	FRICTIONLESS BRAKING SYSTEM
	SUNEET KUMAR	1SG19ME060		


Project Coordinator


Professor HOD Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.


Principal
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SAPTHAGIRI COLLEGE OF ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057.



CERTIFICATE

This Certified that the project Work entitled "**DESIGN AND FRABRICATION OF ENERGY TREE**". carried out by **CHETHAN B (1SG20ME406), LOKESH L (1SG20ME411), NAGABHUSHAN N (1SG20ME412), PURUSHOTHAM G S (1SG20ME415)**. Bonafide students of 8th semester. **Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru** in partial fulfillment of the award of **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year **2022-23**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project.

Signature of Project Guide
Dr. TULSIDAS D
Professor and HOD

Signature of HOD
Dr. TULSIDAS D
Professor and Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057

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

Name of the Examiners

Dr. Tulsidas D

Dr. Shivappa

Signature with Date

Dr. Tulsidas D

Dr. Shivappa 24/05/2023


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2

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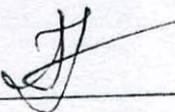
DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)



CERTIFICATE

This Certified that the project Work entitled "FABRICATION OF ELECTRIC POWER TILLER AND ROTARY WEEDER", carried out by AJITH S (1SG19ME003), NIKHIL R (1SG19ME032), SHIVA PRASAD H N (1SG19ME052), YASHWANTH K (1SG19ME071). Bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project.



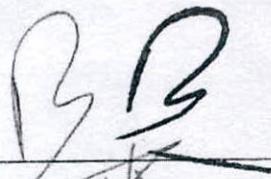
Signature of Project Guide

Mr. A M MAHESHA

Associate professor



Professor & Head
Signature of HOD
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560057.
Professor and HOD



Signature of the Principal
Dr. H RAMAKRISHNA
Principal

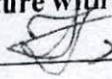
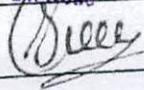
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- Name of the Examiners
- 1) Dr. TULSIDAS D
 - 2) Dr. SHIVAPPA D



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Bengaluru - 560 057

Signature with Date

 24/5/23
 24/05

3

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DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057



CERTIFICATE

This Certified that the project Work entitled **“Industrial Pipe Cleaning and Inspection Robot”** carried out by **ANKUSH G (1SG20ME401), CHETHAN KUMAR S (1SG20ME407), PRAMOD KUMAR H (1SG20ME414), YESHWANTH KUMAR B (1SG20ME420)** Bonafide students of 8th semester, **Department of Mechanical Engineering** at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year **2022-23**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

19/05/23

Signature of the Guide
Mr. CHETHAN B P
Assistant Professor

[Signature]

Signature of the HOD
Dr. TULSIDAS D
Department of Mechanical Engineering

19/05/23

Signature of Co-Ordinator
Mr. RAMESH N G
Assistant Professor.

[Signature]
Signature of the Principal
Dr. H RAMAKRISHNA

Sapthagiri College of Engineering
Sapthagiri College of Engineering
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Bengaluru-560057

Name of the Examiners

- Dr. TULSIDAS D
- Dr. SHIVAPPA D

Signature with Date

[Signature] 24/5/23
[Signature] 24/05

[Signature]

4

SAPTHAGIRI COLLEGE OF ENGINEERING

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

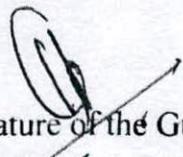
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DEPARTMENT OF MECHANICAL ENGINEERING

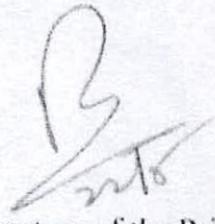


CERTIFICATE

Certified that the Final Project work entitled "MATERIAL OPTIMIZATION OF AIRCRAFT WINGS" carried out by **Nrupada Ramesh (ISG19ME036)**, **Prateek P Jigalore (ISG19ME039)**, **Sagar T (ISG19ME048)** and **Santhosh S (ISG19ME050)** of 8th Semester Mechanical Engineering department in partial fulfilment for the award of degree in **Bachelor of Engineering** at Sapthagiri College of Engineering affiliated to Visvesvaraya Technological University, Belagavi for the academic year 2022-2023. It is certified that all corrections, suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The Final Project report has been approved as it satisfies the academic requirements in prescribed for the said degree.


Signature of the Guide
Dr. BASAVARAJU S
Associate Professor


Signature of the HOD
Dr. TULSIDAS. D
HOD Dept Mech
Professor & Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.


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

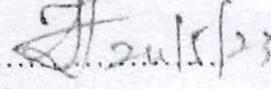
Reviewer

Name of the Examiners

- 1) **Dr. TULSIDAS D**
- 2) **Dr. SHIVAPP**


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

Signature with Date




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DEPARTMENT OF MECHANICAL ENGINEERING

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057



CERTIFICATE

This Certified that the project Work entitled "3 AXIS CNC MACHINE" carried out by AKASH GOWDA N (ISG19ME005), ASHWIN PURUSHOTHAM (ISG19ME009), CHRISTO KOSHY THOMAS (ISG19ME013), MOHAMMED JAVED (ISG19ME028) bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

10/8 24/5/23

Signature of the Guide
Dr. R G Deshpande
Associate Professor

24/5/23

Signature of the HOD
Dr. Tulsidas. D
Professor & Head

Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

24/5

Signature of the Principal
Dr. H RAMAKRISHNA

Name of the Examiners

1. DR. TULSIDAS D

2. DR. SHIVAPPA D

Signature with Date

24/5/23

24/5

Principal

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SAPTHAGIRI COLLEGE OF ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057.



CERTIFICATE

This Certified that the project Work entitled "FABRICATION OF DOMESTIC COOKING STOVE USING USED OIL AS FUEL". carried out by AKASH B N (1SG20ME400), BHOOSHAN NACHAPPA A (1SG20ME404), PRAJWAL C K (1SG20ME413), NIRANJAN V (1SG19ME034). Bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project.

Signature of Project Guide
Mr. RAMKUMAR M

Asst. Professor

Signature of HOD
Dr. TULSIDAS D

Professor & Head

Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

Signature of the Principal
Dr. H RAMAKRISHNA
Principal

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Chikkasandra, Hesaraghatta Road
Bangalore- 560 057

Name of the Examiners

- 1) Dr. TULSIDAS D
- 2) Dr. SHIVAPPA D

Signature with Date

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24/5/23
24/05

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DEPARTMENT OF MECHANICAL ENGINEERING

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057



CERTIFICATE

This certified that the Project work entitled "DESIGN AND FABRICATION OF ULTRA SMALL WATER POWER GENERATOR" carried out by RAVEENDRA (ISG20ME416), SANTHOSH N (ISG20ME417), SRINIVAS S K (ISG20ME418), THARUN KUMAR N H (ISG20ME419) Bonafede students of 8th Semester Mechanical Engineering Department in partial fulfillment for the award of degree in Bachelor of Engineering at Sapthagiri College of Engineering affiliated to Visvesvaraya Technological University, Belagavi for the academic year 2022-2023. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The Mini Project report has been approved as it satisfies the academic requirements in prescribed for the said degree.

maresh s

Signature of the guide

Mr. MAHESH S

Assistant Professor

[Signature]
24/5/23

Signature of the HOD

Professor & Head

Dr. TULSIDAS D

Department of Mechanical Engineering

Sapthagiri College of Engineering

Bengaluru - 560 057,

[Signature]
24/05/23

Signature of Co-Ordinator

Mr. RAMESH N G

Assistant Professor

[Signature]
24/5/23

Signature of the principal

Principal

Dr. H RAMAKRISHNA

Sapthagiri College of Engineering

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Bangalore-560 057

Name of the Examiners

Signature with Date

1. Dr. TULSIDAS D

[Signature]
24/5/23

2. Dr. SHIVAPPA D

[Signature]
Principal

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Bengaluru - 560 057

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24/05/23

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4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)



CERTIFICATE

This Certified that the project Work entitled "AUTOMATED LAKE CLEANER", carried out by ARAVIND M (1SG19ME008), DILIP KUMAR N R (1SG19ME016), GURUCHARAN S (1SG19ME017), HARISH G (1SG19ME018). Bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project.

Signature of Project Guide
Mr. RAMKUMAR M
Assistant Professor

Professor & Head
Signature of HOD
Department of Mechanical Engineering
Dr. TULSIDAS
Sapthagiri College of Engineering
Professor and HOD

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

Name of the Examiners

- 1) Dr. TULSIDAS
- 2) Dr. SHIVAPPA

Signature with Date

SAPTHAGIRI COLLEGE OF ENGINEERING

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ISO 9001-2015 & 14001-2015 Certified, Accredited by NAAC with 'A' Grade
Bengaluru-560057

Department of Mechanical and Engineering

(Accredited by NBA)



Certificate

Certified that the Project Work entitled "DESIGN AND FABRICATION OF COMPRESSED AIR ENGINE" carried out by MD ASHIK ANSARI (ISG19ME027), MOHAMMAD MAAZ (ISG19ME029), NEHA S GOWDA (ISG19ME031), SYED ZABIULLA (ISG19ME062), bonafide students of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical and Engineering of Visvesvaraya Technological University, Belagavi for the academic year 2022-2023. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The Final Project report has been approved as it satisfies the academic requirements in prescribed for the said degree.

BH anif 23/05

Signature of the Guide
Dr. BASAVARAJ GANIGER
Assistant Professor

Tulsidas D 24/5/23

Signature of the HOD
Dr. TULSIDAS D
HOD of Dept Mech
Professor & Head

B 24/5

Signature of the Principal
Dr. H RAMAKRISHNA
Principal
Principal

Department of Mechanical Engineering
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Bengaluru - 560 057

EXTERNAL EXAMINATION: Bengaluru - 560 057,

Name of the Examiners

Signature with Date

1. Dr. TULSIDAS D

Tulsidas D 24/5/23

2. Dr. SHIVAPPA D

B
Principal

B 24/05/2023

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DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057



CERTIFICATE

This Certified that the project Work entitled **“Electric Go-Kart”** carried out by **ABIN JOY (1SG19ME001), CLEMENT WILFRED WIEDLE (1SG19ME014), DEEPAK CHAUHAN (1SG19ME015), JEEVAN KUMAR H (1SG19ME023)** Bonafide students of 8th semester, Department of **Mechanical Engineering** at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Mechanical Engineering** of **Visvesvaraya Technological University, Belagavi** during the year **2022-23**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Dr. TULSIDAS.D

Signature of the HOD
Dr. TULSIDAS.D
Professor & Head

Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

Signature of the Principal
Dr. H RAMAKRISHNA

Name of the Examiners

1. Dr. Tulsidas D.
2. B. N. S. Doolyath

Signature with Date

Principal
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SAPTHAGIRI COLLEGE OF ENGINEERING

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(Accredited by NAAC with "A" Grade & ISO 9001:2015 & ISO 14001:2015 Certified)

DEPARTMENT OF MECHANICAL ENGINEERING

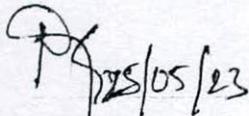
(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

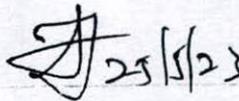


CERTIFICATE

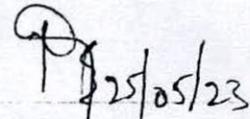
This Certified that the project Work entitled "**Design and Fabrication of 360-degree Fire Protection System**" carried out by **ANIRUDDHA M (1SG19ME007), CHARITH A (1SG19ME012), HEMANTH H N (1SG19ME021), KARTHIK N (1SG19ME024)**, bonafide students of 8th semester, **Department of Mechanical Engineering, Sapthagiri College of Engineering, Bengaluru** in partial fulfillment of the award of **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year **2022-23**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.


25/05/23

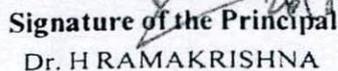
Signature of the Guide
Mr. RAMESH N G
Assistant Professor


25/5/23

Signature of the HOD
Professor & Head
Dr. TULSIDAS D
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.


25/05/23

Signature of Co-Ordinator
Mr. RAMESH N G
Assistant Professor.


26/5

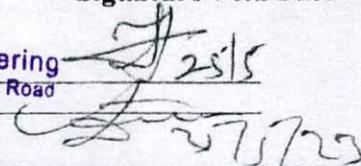
Signature of the Principal
Dr. HRAMAKRISHNA
Sapthagiri College of Engineering

Name of the Examiners

1. Dr. Tulsidas D
2. Dr. N B Reddy


25/5
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature with Date


25/5

27/5/23

12

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE-New Delhi)

(Accredited by NAAC with "A" Grade & ISO 9001:2015 & ISO 14001:2015 Certified)

DEPARTMENT OF MECHANICAL ENGINEERING

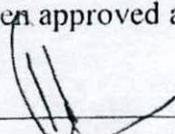
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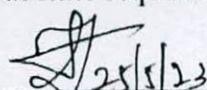
4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057.

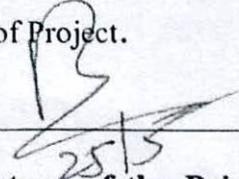


CERTIFICATE

This Certified that the project Work entitled "IMPROVING THE EFFICIENCY OF PV CELL". carried out by **AKASH B (ISG19ME004)**, **KUSHAL V (ISG19ME025)**, **NIRANJAN V (ISG19ME033)**, **ROOPESH R (ISG19ME033)**. Bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project.


Signature of Project Guide
Dr. R G DESHPANDE


Professor & Head
Signature of HOD
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.


Signature of the Principal
Dr. H RAMAKRISHNA


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

Name of the Examiners

1) Dr. Tulsidas D

2) Dr. H. B. D. Deshpande

Signature with Date

25/5/23

25/5/23

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated in Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)

(Accredited by NAAC with 'A' Grade & ISO 9001:2015 & ISO 14001:2015 Certified)

DEPARTMENT OF MECHANICAL ENGINEERING

(OBA ACCREDITED)

A/5, Chikkasandra, Heeraghatta Main Road, Bengaluru-560057



CERTIFICATE

This Certified that the project work entitled "Design and Fabrication of Electric Portable Tiller" carried out by RAHUL B AROLI (ISG19ME042), SHYAM P V GOWDA (ISG19ME057), TEJAS D (ISG19ME063), THARUN K (ISG19ME065) Bonaide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Mr. ANIL KUMAR P R
Assistant Professor

Signature of the HOD
Dr. TULSIDAS D
Department of Mechanical Engineering

Signature of Co-Ordinator
Mr. RAMESH N G
Assistant Professor.

Signature of the Principal
Dr. H RAMAKRISHNA
Sapthagiri College of Engineering

Name of the Examiners

Signature with Date

1. Dr. TULSIDAS D

B

25/5/23

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

2. Dr. ANIL KUMAR P R

25/5/23

14

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE-New Delhi)

(Accredited by NAAC with "A" Grade & ISO 9001:2015 & ISO 14001:2015 Certified)

DEPARTMENT OF MECHANICAL ENGINEERING

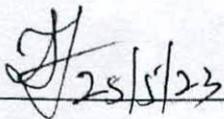
(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

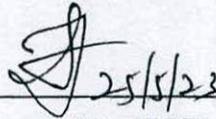


CERTIFICATE

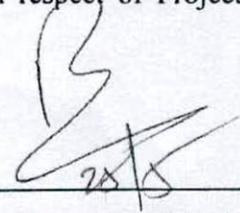
This Certified that the project Work entitled "3D PRINTING MACHINE" carried out by SANGEETH KUMAR S (1SG19ME049), SADHU (1SG19ME047), SHASHANK KC (1SG19ME051), CHANNABASAPPA DV (1SG20ME405) Bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.


25/5/23

Signature of the Guide
Dr. TULSIDAS.D
Professor


25/5/23

Signature of the HOD
Dr. TULSIDAS.D
Department of Mechanical Engineering Sapthagiri College of Engineering


25/5

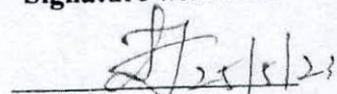
Signature of the Principal
Dr. H RAMAKRISHNA

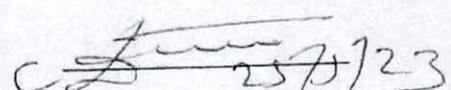
Name of the Examiners

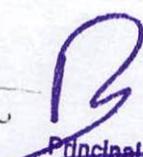
Signature with Date

1). Dr. Tulsidas D

2). D. N. B. Deobhatte


25/5/23


25/5/23


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

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE-New Delhi)

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DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057



CERTIFICATE

This Certified that the project Work entitled "**Design and Fabrication of Box Transport Mechanism**" carried out by **ARUN P (ISG20ME402), HARSHITH H ACHARYA (ISG20ME408), HRITHIK B (ISG20ME409), KAUSHIK P (ISG20ME410)** Bonafide students of 8th semester, Department of Mechanical Engineering at Saphthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year **2022-23**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Basavaraj Ganiger 23/05

Signature of the Guide

Dr. BASAVARAJ
GANIGER
Assistant Professor

Tulsidas D 23/5/23

Signature of the HOD

Dr. TULSIDAS D
Department of Mechanical Engineering
Department of Mechanical Engineering
Saphthagiri College of Engineering
Bengaluru - 560-057.

Ramesh N G 23/05/23

Signature of Co-Ordinator

Mr. RAMESH N G
Assistant Professor.

Signature of the Principal

Dr. H RAMAKRISHNA
Saphthagiri College of Engineering

Name of the Examiners

1. *Dr. Tulsidas D*

2. *Dr. Ramakrishna*

Signature with Date

Tulsidas D 25/5/23

Ramakrishna 25/5/23

Principal
Saphthagiri College of Engineering
4/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

ISO 9001-2015 & 14001-2015 Certified, Accredited by NAAC with 'A' Grade

Bengaluru-560057

Department of Mechanical and Engineering

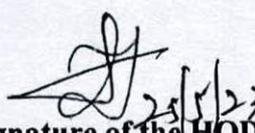
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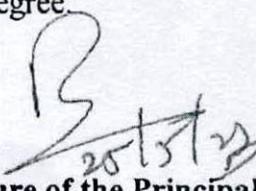


Certificate

Certified that the Project Work entitled "FABRICATION OF BLADELESS WIND TURBINE" carried out by ASHWIN R (ISG19ME010), NITHIN C (ISG19ME035), VINAY S (ISG19ME069), YASHAS S (ISG19ME070), bonafide students of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical and Engineering of Visvesvaraya Technological University, Belagavi for the academic year 2022-2023. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The Final Project report has been approved as it satisfies the academic requirements in prescribed for the said degree.


25/05/23
Signature of the Guide
Mr. RAMESH N G
Assistant Professor


25/5/23
Signature of the HOD
Dr. TULSIDAS D
Professor & Head
HOD of Dept Mech
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

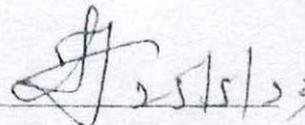

25/5/23
Signature of the Principal
Dr. H RAMAKRISHNA
Principal
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

EXTERNAL EXAMINATION:

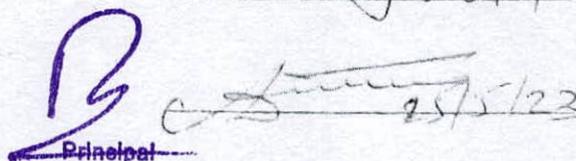
Name of the Examiners

Signature with Date

1. Dr. Tulsi Das D


25/5/23

2. Dr. N B Subbajitha


25/5/23
Principal

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

17

SAPTHAGIRI COLLEGE OF ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)

14/5, Hesaragatta, Main Road, Chikkasandara, Bengaluru-560057



CERTIFICATE

Certified that the Final Project work entitled "DESIGN AND FABRICATION OF ELECTROMECHANICAL ACTIVE SUSPENSION SYSTEM TEST RIG" out by Raghav Ramesh (1SG19ME040) Rasika Rukmini Rajesh(1SG19ME900), Shree Srinivasa Kalaiselva Shreyas (1SG19ME053) and Rudresh S (1SG19ME046) of 8th Semester Mechanical Engineering department in partial fulfillment for the award of degree in Bachelor of Engineering at Sapthagiri College of Engineering affiliated to Visvesvaraya Technological University, Belagavi for the academic year 2022-2023. It is certified that all corrections /suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The Final Project report has been approved as it satisfies the academic requirements prescribed for the said degree.

.....
Signature of the Guide
Mr. CHETAN B P

.....
Signature of the HOD
Dr. TULASI DAS
Professor & Head

.....
Signature of the principal
Dr.H RAMAKRISHNA

Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

Name of the examiners

Signature with date

1. Dr. Tulasi Das

2. Dr. H. B. Daddappa

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

.....
Signature with date
25/8/23

SAPTHAGIRI COLLEGE OF ENGINEERING

(Accredited by NAAC with "A" Grade & ISO 9001:2015 & ISO 14001:2015 Certified)

45, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled "DESIGN AND FABRICATION OF CATTLE SHED CLEANING AND COLLECTING MACHINE", carried out by PRAJWAL B M (1SG19ME037), RAJESH M (1SG19ME044), U P K SWAMY (1SG19ME066), TARUN N N (1SG19ME072). Bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project.

Signature of Project Guide
Mr. ANIL KUMAR P R

Signature of HOD
Professor & Head
Dr. TULSIDAS B
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

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

Name of the Examiners

- 1) DR. TULSIDAS B
- 2) Dr. N. B. Reddyathu

Principal
Sapthagiri College of Engineering
44/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature with Date

19

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE-New Delhi)

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DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057



CERTIFICATE

This Certified that the project Work entitled "FABRICATION OF VORTEX FLAME ROCKET STOVE WITH FORCED AIR CONTROLLER" carried out by JASHWANTH YADAV C (1SG18ME036), NARAYANASWAMY K L(1SG18ME055), NISHANTH K(1SG18ME056), SOHAN DSOUZA(1SG18ME080) Bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for

Signature of the Guide
Mr. RAM KUMAR M
Assistant Professor

Signature of the HOD
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru

Signature of Co-Ordinator
Mr. RAMESH N G
Assistant Professor.

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

Name of the Examiners

1. Dr. Basavaraj H

2. Dr. P. S. Dhanoo

Principal
Sapthagiri College of Engineering
4/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature with Date
@anif 26/05
26/05/23

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE-New Delhi)

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DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057



CERTIFICATE

This Certified that the project work entitled **"Design and Fabrication of Two-wheel drive forklift for industry warehouses"** carried out by **PRAJWAL N (1SG18ME059), SUHAS M (1SG18ME082), SYED HUSSAIN (1SG19ME061), HARSHITH. A J (1SG19ME073)** Bonafide students of 8th semester, **Department of Mechanical Engineering** at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year **2022-23**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Mr. NATARAJ H N
Assistant Professor

Signature of the HOD
Dr. TULSIDAS D
Department of Mechanical Engineering

Signature of Co-Ordinator
Mr. RAMESH N G
Assistant Professor.

Signature of the Principal
Dr. H RAMAKRISHNA
Sapthagiri College of Engineering

- Name of the Examiners
1. Dr. Basavaraj G
 2. Dr. P. S. Dabbeer

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

Signature with Date

21

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE-New Delhi)

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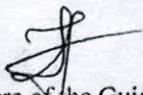
DEPARTMENT OF MECHANICAL ENGINEERING

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

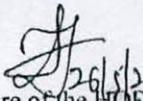


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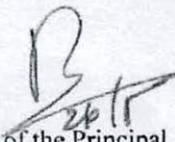
Certified that the Final Project work entitled "**DESIGN & FABRICATION OF E - SCOOTER**" carried out by **Shrish S Digraj (ISG19ME056), Tharun G (ISG19ME064), Varshith J Gowda (ISG19ME067) and Vikas Gowda U T (ISG19ME068)** of 8th Semester Mechanical Engineering department in partial fulfilment for the award of degree in **Bachelor of Engineering** at **Sapthagiri College of Engineering** affiliated to **Visvesvaraya Technological University, Belagavi** for the academic year 2022-2023. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The Final Project report has been approved as it satisfies the academic requirements in prescribed for the said degree.


Signature of the Guide

Dr. A M MAHESHA
Associate Professor


Signature of the HOD
Professor & Head

Dr. T. U. SADAS
Department of Mechanical Engineering
HOD, Dept. Mech
Sapthagiri College of Engineering
Bengaluru - 560 057.


Signature of the Principal

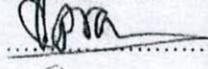
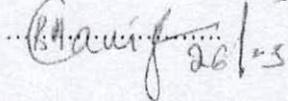
Dr. H. RAMAKRISHNA
Principal

Reviewer

Name of the Examiners

1. **Dr. P. S. Dabeer**
2. **Dr. Basavaraj G**

Signature with Date

 26/5/23
 26/5


Principal

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

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE-New Delhi)

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DEPARTMENT OF MECHANICAL ENGINEERING

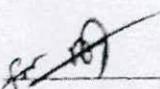
(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

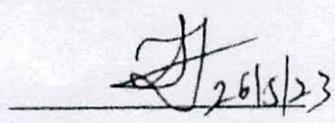


CERTIFICATE

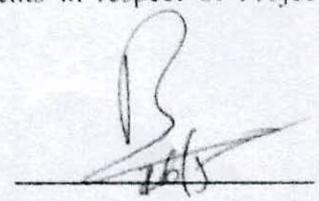
This Certified that the project Work entitled "MULTI-PURPOSE AGRICULTURAL VEHICLE" carried out by **BADRISH S (1SG19ME011), HARISH K (1SG19ME019), HARSHITH GOWDA D S (1SG19ME020), JAYANTH B (1SG17ME032)** Bonafide students of 8th semester , Department of Mechanical Engineering at Sapthagiri College of Engineering , Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University , Belagavi during the year 2022 -23. It is certified that all corrections /suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library . The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.



Signature of the Guide
Mr.PRAMOD S V
Assistant Professor



Signature of the HOD
Dr.TULSIDAS.D
Department of Mechanical Engineering

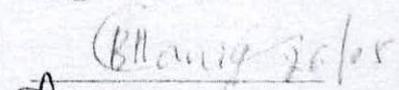


Signature of the Principal
Dr.H RAMAKRISHNA
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

Name of the Examiners

- Dr Basavaraj G
- Dr P. S Babbar

Signature with Date


26/11/23



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

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE-New Delhi)

(Accredited by NAAC with "A" Grade & ISO 9001:2015 & ISO 14001:2015 Certified)

DEPARTMENT OF MECHANICAL ENGINEERING

(NBA ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

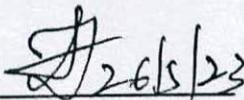


CERTIFICATE

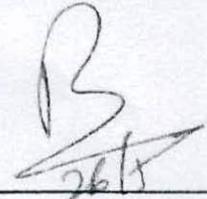
Certified that the project Work entitled **“Composite Material – Characterization of Epoxy Polymer Reinforced with Graphene Nano Particles”** carried out by PRAJWAL S REDDY (ISG19ME038), RAHUL B CHOUDHARY (ISG19ME041), LOKESH GOWDA H M (ISG19ME026), SUDEEP R (ISG19ME059) Bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.


26/05/23

Signature of the Guide
Mr. RAMESH N G
Assistant Professor


26/5/23

Professor & Head
Signature of the HOD
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.


26/5

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

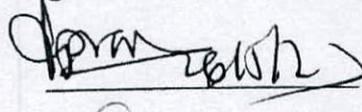
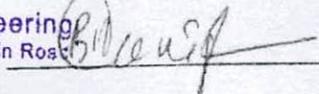
Name of the Examiners

1. Dr P-S Arbes
2. Dr Basavaraj G



Sapthagiri College of Engineering
4/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature with Date

SAPTHAGIRI COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & ISO 9001:2015 & ISO 14001:2015 certified

DEPARTMENT OF MECHANICAL ENGINEERING

(NSI ACCREDITED)

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057



CERTIFICATE

This Certified that the project Work entitled "**Automated Platform Safety Gates for Metro using Recycled Plastic Ropes**" carried out by **SHREYAS R (ISG19ME055)**, **SHREYAS KUMAR A S (ISG19ME054)**, **RAHUL H M (ISG19ME043)**, **SOWRABHA R N (ISG19ME056)** Bonafide students of 8th semester, Department of Mechanical Engineering at Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year **2022-23**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

(Handwritten Signature)

Signature of the Guide
Dr. BASAVARAJU S
Associate Professor

(Handwritten Signature)

Signature of the HOD
Dr. TULSIDAS D
Department of Mechanical Engineering
Professor & Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057

(Handwritten Signature)

Signature of the Principal
Dr. HRAMAKRISHNA
Sapthagiri College of Engineering

Name of the Examiners

1. Dr. P. S. Babbar

2. Dr. ...

Signature with Date

(Handwritten Signature and Date)

(Handwritten Signature and Date)

(Handwritten Signature)

Principal

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

SAPTHAGIRI COLLEGE OF ENGINEERING

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

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-57

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Final Project work entitled "FRICTIONLESS BRAKING SYSTEM" carried out by **Bharath V (1SG20ME403)** and **Suneet Kumar (1SG19ME060)** of 8th Semester Mechanical Engineering department in partial fulfilment for the award of degree in **Bachelor of Engineering** at Sapthagiri College of Engineering affiliated to **Visvesvaraya Technological University, Belagavi** for the academic year 2022-2023. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The Final Project report has been approved as it satisfies the academic requirements in prescribed for the said degree.

Mohan AE

Signature of the Guide
Dr. MOHAN A E
Assistant Professor

Tulsidas 25/5/23

Signature of the HOD
Dr. TULSIDAS D
HOD Dept. Mech

H Ramakrishna

Signature of the Principal
Dr. H RAMAKRISHNA
Principal

H Ramakrishna
Principal

Reviewer

Name of the Examiners

1. *Dr P. S. Dabbar*
2. *Dr. B. S. A. V. RAJ G*

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

Signature with Date
Dr. P. S. Dabbar 26/10/2023
B. S. A. V. RAJ 26/10/23