

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 Group -AY 2023-24

Batch No	Name of the Student	USN	Guide	Project title
1	G LIKHITH	1SG20ME004	Prof.Chethan B P	Design and Fabrication of Springless suspension using Bevel Gears for Agricultural Applications
	GAGAN C D	1SG20ME005		
	MANJUNATHA KR	1SG20ME009		
	NISHANTH LR	1SG20ME011		
2	DAIVIK KR	1SG20ME003	Dr. Tulsidas D	Design and Fabrication of Compressed Air Vehicle
	GOWTHAM GOWDA	1SG20ME006		
	SAHIL SULAIMAN	1SG20ME019		
	SHASHANKA B	1SG20ME022		
3	HARSHITHKUMAR HV	1SG20ME007	Prof. Pramod S V	Design and Fabrication of Two Wheel Drive Forklift
	MANOJ S	1SG20ME010		
	PAVAN R	1SG20ME013		
	YATIN G RAO	1SG20ME026		
4	RAMAN YADAV	1SG20ME016	Dr. Basvaraj Ganiger	Design and Fabrication of Bomb Detecting and defusing robot using IOT
	SHASHANK S	1SG20ME021		
	SRUJAN MS	1SG20ME023		
	SAHIL SAMEER	1SG20ME018		
5	CHANDAN S	1SG20ME002	Dr. R .G Deshpande	Design and Fabrication of gearless transmission system using elbow mechanism
	R ARUNKUMAR	1SG20ME014		
	RAVISH GOWDA R	1SG21ME416		
	BHARATHKUMAR G	1SG21ME403		
6	MANOJ J	1SG21ME413	Prof. Ramesh N G	Design and Fabrication of Solar powered Seed Spraying Machine
	SM LAKSHMISHA	1SG21ME418		
	VISHNU PRASAD BN	1SG21ME420		
	GURU RAJ	1SG21ME407		
7	CHETHAN S	1SG21ME404	Dr.Mohan A E	Design and Fabrication of Cocount Dehusking Machine
	D.VENKATA PAVAN	1SG21ME405		
	JEEVAN K	1SG21ME408		
	PRASANNA.B	1SG21ME415		
8	LAKSHMISH H	1SG21ME411	Dr. Anilkumar P R	Design and Fabrication of steering Controlled Headlight Mechanism
	LIKHITH M G	1SG21ME412		
	MANOJ K C	1SG21ME414		
	VATSA R	1SG21ME419		

9	DHANANJAYA K M	1SG21ME406	Prof. Ramesh N G	Fabrication of Solar powered Automatic Braking System and Bumper actuating System
	K ABHISHEK GOWDA	1SG21ME409		
	BHARATH KUMAR K N	1SG21ME402		
	SANJAY M S	1SG21ME417		
10	KOWSHICK C GOWDA	1SG21ME410	Prof. Nataraj H N	Composite material
	VIVEK D N	1SG21ME421		
	AMRUTH KUMAR M S	1SG21ME400		
	ASHWIN R	1SG21ME401		
11	S RAJSHEKAR	1SG20ME017	Prof.Chethan B P	Design and Fabrication of Cocount Dehusking Machine
	PAVAN M	1SG20ME012		
	VISHWAS YADAV	1SG20ME025		
12	RAKSHATH G	1SG20ME015	Prof. Pramod S V	5D Robotics Arm Mechanism
	LAXMANSIDDAPPA	1SG19ME008		
	VILOK R	1SG20ME024		

**SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU-560057**

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


(Accredited by NAAC with 'A' Grade & ISO 9001:2015 & 14001:2015 Certified Institute) #14/S,

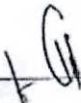
Chikkasandara, Hesaraghatta Main Road Bengaluru -560057


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

It is certified that the project work phase II entitled with "DESIGN AND FABRICATION OF SPRINGLESS SUSPENSION USING BEVEL GEAR" is a Bonafede work carried out by G LIKHITH (ISG20ME004), GAGAN C D (ISG20ME005), MANJUNATHA K R (ISG20ME009) & NISHANTH L R (ISG20ME011) in partial fulfilment of requirement for the award of degree of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological university, Belagavi, during the year 2023-2024. All correction/suggestion for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th & 8th semester.


Signature of the Guide
Mr. Chetan B P
Assistant professor


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

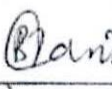


Signature of Principal
Dr. H Ramkrishna
Principal

Name of the Examiners

1. Dr. BASAVARAJ GANZAR

2. Dr. Sarman S

Signature with Date

 29/5/24
 29/5/24

SAPTHAGIRI COLLEGE OF ENGINEERING

BENGALURU -560057

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#14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru -560057


DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

It is certified that the project work phase II entitled with "DESIGN AND FABRICATION OF COMPRESSED AIR VEHICLE" is a bonafide work carried out by DAIVIK K R (1SG20ME003), GOWTHAM GOWDA (1SG20ME006), SAHIL SULAIMAN (1SG20ME019) & SHASHANKA B (1SG20ME022) in partial fulfilment of requirement for the award of degree of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological university, Belagavi, during the year 2023-2024. All correction/ suggestion for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th & 8th semester.


Signature of the Guide
Dr. Tulsidas D
Prof & HOD


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

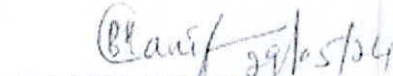
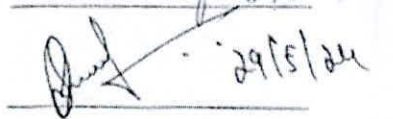

Signature of Principal
Dr. H. Ramkrishna
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

Name of the Examiners

1. Dr. BASAVARAJ GANZAGER

2. Dr. Samman S

Signature with Date


29/5/24

29/5/24

**SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU -560057**

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Chikkasandra, Hosuraghatta Main Road Bengaluru -560057

**DEPARTMENT OF MECHANICAL ENGINEERING
2023-2024**



CERTIFICATE

It is certified that the project work phase II entitled with "DESIGN AND FABRICATION OF TWO WHEEL DRIVE FORKLIFT" is a bonafide work carried out by HARSHITH KUMAR HV (ISG20ME007), MANOJ S (ISG20ME010), PAVAN R (ISG20ME013) & YATIN G RAO (ISG20ME026) in partial fulfilment of requirement for the award of degree of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological university, Belagavi, during the year 2023-2024. All correction/ suggestion for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th & 8th semester.

Prasanna, 28/05/2024

Signature of the Guide

Mr. PRAMOD SV

Assistant Professor

Department of Mechanical Engineering

[Signature]

Signature of the H.O.D

Dr. TULSIDAS D

Head of the Department

Department of Mechanical Engineering

Sapthagiri College of Engineering

Bengaluru - 560057

[Signature]

Signature of the Principal

Dr. H RAMKRISHNA

Principal

Sapthagiri College of Engineering

Chikkasandra, Hosuraghatta Road

Bengaluru - 560057

EXTERNAL VIVA

Name of the Examiners

1. *Dr. BASAVARAS GANIGER*

2. *Dr. Samman S*

Signature with Date

[Signature] 29/5/24

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the project work entitled "BOMB DETECTING AND DEFUSING ROBOT USING IOT" carried out by RAMAN YADAV (ISG20ME016), SAHIL SAMEER (ISG20ME018), SHASHANK S (ISG20ME021) and SRUJAN M S (ISG20ME023) are bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering in Final Year of Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections/suggestions indicated for the Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to Final Year project work.

Signature of the Guide
Dr. BASAVARAJ GANIGER
Assistant Professor

Name of the Examiners

1. Dr. BASAVARAJ GANIGER
2. Dr. Samman S

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

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

SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU-560057

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(Accredited by NAAC with "A" grade) (Accredited by NBA for ECE, CSE, ISE, ME, EEE)

Department Of Mechanical Engineering

(Accredited by NBA)



Certificate

Certified that the Project Work entitled "Design & Fabrication of Gearless Transmission System using Elbow Mechanism" carried out by CHANDAN S (ISG20ME002), R ARUN KUMAR (ISG20ME014), BHARATH KUMAR G (ISG21ME403), RAVISH GOWDA R (ISG21ME416) bonafide students of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The project report has been approved as it satisfies the academic requirements in respect of Project Work Phase II (18MEP83) prescribed for the said degree.

Signature of the Guide
Dr. R. C. Deshpande
Associate Professor

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

Signature of the Principal
Dr. H. Ramkrishna
Principal

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

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

EXTERNAL EXAMINATION:

Name of the Examiners

Signature with Date

1. Dr. BASAVARAJ GANDHAR

2. Dr. Sarman. S

Dr. H. Ramkrishna
29/5/24

SAPTHAGIRI COLLEGE OF ENGINEERING

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Bengaluru-560057


Department of Mechanical Engineering


(Accredited by NBA)

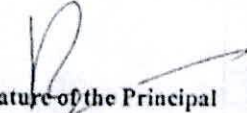


Certificate

Certified that the Project Work entitled "DESIGN AND FABRICATION OF SOLAR POWERED SEED SPRAYER MACHINE" carried out by GURURAJ L (ISG21ME407), MANOJ J (ISG21ME413), SM LAKSHMISHA (ISG21ME418), VISHNU PRASAD B N (ISG21ME420), bonafide students of Sapthagiri College of Engineering, in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The project report has been approved as it satisfies the academic requirements in respect of Project Work Phase II (18MEP83) prescribed for the said degree.


Signature of the Guide
Prof. Ramesh N G
Assistant Professor


Signature of the HOD
Dr. Tulsidas D
Professor & Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
EXTERNAL EXAMINATION:


Signature of the Principal
Dr. H. Ramkrishna
Principal

Name of the Examiners

Signature with Date

1. Dr. BASAVARAJ ANANDAR

Blarif 29/5/24

2. Dr. Sarman S

Blarif 29/5/24

SAPTHAGIRI COLLEGE OF ENGINEERING
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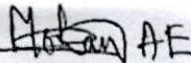
Department of Mechanical Engineering

(Accredited by NBA)

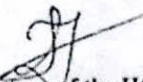


Certificate

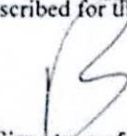
Certified that the Project Work entitled "DESIGN AND FABRICATION OF COCONUT DEHUSKING MACHINE" carried out by CHETHAN S (ISG21ME404), D VENKATA PAVAN (ISG21ME405), JEEVAN K (ISG21ME408), PRASANNA B (ISG21ME415), bonafide students of Sapthagiri College of Engineering, in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The project report has been approved as it satisfies the academic requirements in respect of Project Work Phase II (18MEP83) prescribed for the said degree.

 AE

Signature of the Guide
Dr. Mohan A E
Assistant Professor



Signature of the HOD
Dr. Tulsidas D
Professor & Head
Department of Mechanical Engineering



Signature of the Principal
Dr. H Ramkrishna
Principal

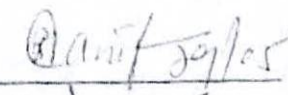
EXTERNAL EXAMINATION:

Name of the Examiners

Dr BASAVARAT Y

Dr. Sanman. S

Signature with Date



 29/5/24

DEPARTMENT OF MECHANICAL ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandara, Hesaraghatta, Main Road, Bengaluru-560057



CERTIFICATE

This is to Certify that the project work entitled "DESIGN AND FABRICATION OF STEERING CONTROLLED FOG LIGHT MECHANISM" carried out by LAKSHMISH H (ISG21ME412), LIKHITH M G (ISG21ME412), MANOJ K C (ISG21ME414), VATSA R (ISG21ME419) bonafide students of 8th semester, Department of Mechanical Engineering in partial fulfillment of requirements for the award of Bachelor's degree at Sapthagiri College of Engineering, Bengaluru in Mechanical Engineering presented by Visvesvaraya Technological University, Belagavi, during the academic year 2023-24.



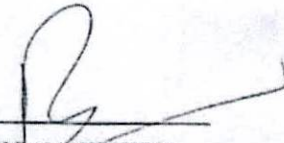
28/5/24

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



Dr. TULSIDAS D
Professor & Head

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



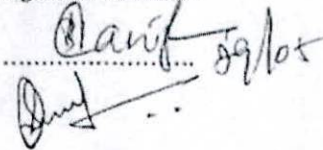
Dr. H RAMAKRISHNA
PRINCIPAL
Signature of the Principal

Reviewer

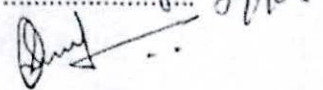
Name of the Reviewer

1. Dr. BASAVARAJ G
2. Dr. Sarman S

Signature with date



28/5/24




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Bengaluru-560057

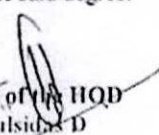
Department of Mechanical Engineering
(Accredited by NBA)




Certificate

Certified that the Project Work entitled "SOLAR POWERED AUTOMATIC BREAKING SYSTEM AND BUMPER ACTUATION SYSTEM" carried out by BHARATH KUMAR K N (ISG21ME402), DHANANJAYA K M (ISG21ME406), K ABHISHEK GOWDA (ISG21ME409), SANJAY M S (ISG21ME417), bonafide students of Sapthagiri College of Engineering, in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The project report has been approved as it satisfies the academic requirements in respect of Project Work Phase II (18MEP83) prescribed for the said degree.


Signature of the Guide
Prof. Ramesh N G
Assistant Professor


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


Signature of the Principal
Dr H Ramkrishna
Principal

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

Name of the Examiners

Signature with Date

1. Dr. BASAVARATHY

Dr. H. Ramkrishna 29/5/24

2. Dr. Samman. S


Dr. Tulsidas D 29/5/24


DEPARTMENT OF MECHANICAL ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandara, Hesaraghatta, Main Road, Bengaluru-560057




CERTIFICATE

This is to Certify that the project work entitled "CHARACTERIZATION OF GRAPHENE REINFORCED EPOXY POLYMER NANO COMPOSITE" carried out by AMRUTH KUMAR M S (ISG21ME400), ASHWIN R (ISG21ME402), KOWSHICK M C (ISG21ME410), VIVEK D N (ISG21ME421) bonafide students of 8th semester, Department of Mechanical Engineering in partial fulfillment of requirements for the award of Bachelor's degree at Sapthagiri College of Engineering, Bengaluru in Mechanical Engineering presented by Visvesvaraya Technological University, Belagavi, during the academic year 2023-24.


Signature of the Guide
Prof. Ramesh N G
ASSISTANT PROF.

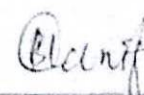


Signature of the HOD
Dr. Tulsidas D
Professor & Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.


Signature of Principal
Dr. H Ramkrishna
Principal

Name of the Examiners

1. Dr BASAVARAT G
2. P.S. RAVICHANDRAN

Signature with Date

 30/5/24
 31/5

SAPTHAGIRI COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is Certified that the project work phase I entitled with "DESIGN AND FABRICATION OF ROCKER ROGIE MECHANISM" is a bonafied work carried out by team associates PAVAN M (1SG20XME012), S RAJSHIEKHAR (1SG20XME017), VISHWAS VADAV (1SG20XME025), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in MECHANICAL Engineering of Visvesvaraya Technological University, Belagavi, during the year 2023-2024. All corrections / suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

CHETAN B P PROJECT GUIDE Assistant prof. S.C.E., BENGALURU	DR. THIRUPAD S.C.E., BENGALURU Professor & Head	DR. H. R. RAJAKRISHNA PRINCIPAL S.C.E., BENGALURU
---	---	---

Name of the Examiners	Department of Mechanical Engineering	Bengaluru - 560 057
-----------------------	--------------------------------------	---------------------

1. DR BASAVARAJU G	Signature with Date	30/05
2. P.S. RAVICHANDRAN	Signature with Date	30/05

SAPTHAGIRI COLLEGE OF ENGINEERING

BENGALURU -560057

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#14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 560057

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the project work phase II entitled with "DESIGN AND FABRICATION OF 5-DOF ROBOTIC ARM" is a bonafide work carried out by LAXMAN SIDDAPPA (1SG20ME008), RAKSHATH G (1SG20ME015) in partial fulfilment of requirement for the award of degree of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological university, Belagavi, during the year 2023-2024. All correction/ suggestion for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th & 8th semester.

Prof. S. V. 29/05/2024

Signature of the Guide
Prof. Pramod S V
Assistant Professor

Dr. Tulsidas D

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

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

Name of the Examiners

1. Dr. BASAVARAJ

2. P. S. RAVICHANDRA

Dr. H. Ramkrishna

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

Signature with Date

Dr. H. Ramkrishna 30/05

12/05/2024