

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main road, Bangalore-57



Department of Mechanical Engineering

CERTIFICATE

Certified that the project work entitled "FABRICATION OF ECO FRIENDLY COOLING CABINET" carried out by RAKSHITH R (1SG17ME068), RAKESH D K (1SG16ME075), NUTHAN N (1SG18ME427), RENUKAPRASAD D U(1SG18ME431) are bonafide students of Sapthagiri College of Engineering in partial fulfillment for the award of Bachelor of Engineering in 8th semester Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2020-21.

MR. PADMANABHAG

Signature of the Guide

Dr. PMAHADEVSWAMY

Signature of the HOD

Dr. HRAMAKRISHNA

Signature of the Principal

Principal

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

Name of the Examiners:

- 1 Di-BASAVARAJ RANICGER
- 2 padmanabha G

Signature with Date:

11/8/21

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated
to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled “**Design and Fabrication of Areca-Nut Tree Climbing Robot for Pesticide Spraying**” carried out by **Rudresh G (1SG17ME072)**, **Sanketh (1SG17ME076)**, **Santhosh Kumar S (1SG17ME077)**, **Vishal Venkatesh Bhandari (1SG17ME099)** 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 **2020-21**. 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. PADMANABHA G
Assistant Professor


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


Signature of the HOD
Dr. P MAHADEVASWAMY
Department of Mechanical Engineering

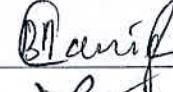

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE


Principal

Name of the Examiners

1. Dr. Basavaraj Ganiger
2. Padmanabha G

Signature with Date




11/8/21

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

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated
to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled "Fabrication of Exoskeleton Arm" carried out by Ankush UP (1SG17ME007), Bharath G (1SG17ME012), Bharath D M (1SG17ME013), Chethan M (1SG17ME018) 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 2020-21. 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
Associate Professor

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

Signature of the HOD
Dr.P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

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

Name of the Examiners

1. Dr. Basavaraj Ganiger
2. padmanabha G

Signature with Date

11/8/21

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled “DESIGN AND FABRICATION OF TWO WHEELED FORKLIFT” (for industrial warehouse) carried out by Gagana kusuma k (1SG18ME416), Harshith S(1SG18ME026), Nikith D (1SG17ME049), Pavithra N (1SG18ME428) 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 2020-21. 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. SATISH KUMAR Y D
Assistant Professor

Signature of Project Co-ordinator
Mr. RAMESH N G
Assistant Professor.

Signature of the HOD
Dr. P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

Name of the Examiners

1. Dr- Basavaraj Chandler
2. padmanabha G

Signature with Date

11/8/21

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated
to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled "FABRICATION OF RESCUE DEVICE FOR CHILD STRUCK IN PIT" carried out by MOHAMMED AZEEM (1SG17ME044), CHARAN KUMAR .M(1SG18ME407), CHETHAN .N(1SG18ME408), VEERESH .B (1SG18ME438) 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 2020-21. 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. R.G DESHPANDE
Associate Professor

Signature of Project Co-ordinator
Mr. RAMESH N G
Assistant Professor.

Signature of the HOD
Dr. P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

Name of the Examiners

1. Dr. BASAVARAJ GANDHER
2. Anilkumar .P.R

Signature with Date

Bhargava
A. R. P. R 10/8/21

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled "Voice Activated X Y Plotter for Specially Abled" carried out by Chandan P (1SG17ME020), Mohan S (1SG17ME045), Kiran S (1SG17ME035), Jairaj B (1SG17ME031) 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 2020-21. 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. R G Deshpande)
Associate Professor

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

Signature of the HOD
Dr.P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

Name of the Examiners

1. Dr. BAZAVARAJ GANDHER
2. Anil Kumar. P.R

Signature with Date

[Signature]

[Signature] 10/8/21

25

SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
14/5, Chikkasandra , Hesaraghatta Main Road, Benagluru-560057, Karnataka



CERTIFICATE

This is to certify that project entitled "SMART VEHICLE WITH ALCOHOL DETECTION & SMART BRAKING SYSTEM" has been satisfactorily completed by ARJUN G (1SG18ME403) ,DEVARAJ K N (1SG18ME411),DHANARAJ R (1SG18ME412), MANOHAR H S (1SG18ME422) students of 8th semester of Department of Mechanical Engineering in partial fulfillment of requirements for the award of Bachelor's degree in Mechanical Engineering presented by Visvesvaraya Technological University, Belagavi during academic year 2020-2021.

Mr. Hemanth Kumar H R
Signature of the guide

Dr. P Mahadevaswamy
Signature of the HOD

Dr. H Ramakrishna
signature of the
Principal

Name of Examiners

1. Dr. BASAVARAJ GANIGER

2. Anil Kumar P.R

Signature with Date

Anil Kumar P.R 10/8/21

Dr. Basavaraj Ganiger

Principal

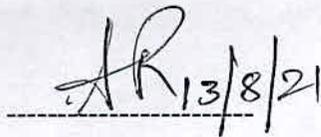
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

CERTIFICATE

This is to certify that the project work entitled **DESIGN AND DEVELOPMENT OF WATER PUMPING AND POWER GENERATION BY USING SWING ACTION** is a bona fide work carried out by

ANUP P	1SG17ME008
DHANUSH M	1SG18ME413
KUSHAL V	1SG17ME038
NITIN S RAM	1SG17ME051

in partial fulfillment for the award of degree of ***Bachelor of Engineering in Mechanical Engineering*** of Visvesvaraya Technological University, Belagavi during the year 2020-21. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement in respect of project work prescribed for the degree.



Mr. Arun kumar R
Signature of Guide



Dr. P Mahadevaswamy
Signature of HOD



Dr. H Ramakrishna
Signature of
Principal



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

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI-590018



A Project report on
“DESIGN AND DEVELOPMENT OF WATER PUMPING AND
POWER GENERATION BY USING SWING ACTION”

UNDER THE GUIDANCE OF

Mr . ARUN KUMAR R
assistant professor
mechanical department
sapthagiri college of engineering

SUBMITTED BY

ANUP P (1SG17ME008)
DHANUSH M (1SG18ME413)
KUSHAL V (1SG17ME038)
NITIN S RAM (1SG17ME051)



DEPARTMENT OF MECHANICAL ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING

(Accredited by NAAC with “A” grade)

(An ISO 9001:2015 & ISO 14001:2015 Certified Institution)

(Affiliated to VTU, Belagavi and approved by AICTE, New Delhi)

DEPARTMENT OF MECHANICAL ENGINEERING 14/5, Chikkasandra, Hesarghatta Main
Road, Bengaluru-560057


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

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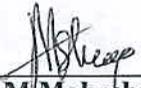
Affiliated to VTU, Belagavi and approved by AICTE, New Delhi

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "Fabrication of Solar Powered Load Carrying Vehicle" is a bonafide work carried out by Rakesh KV (1SG16ME076), Rohit M (1SG16ME081), Sathish Kumar N (1SG16ME089), Sudhakar M (1SG17ME429) in partial fulfillment for the award of Bachelor of Engineering in the Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the academic year 2020-2021. It is certified that 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.


Mr. A M Mahesha
Signature of Guide


Dr. P Mahadevaswamy
Signature of HOD

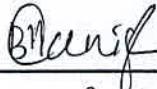

Dr. H Ramakrishna
Signature of Principal

Reviewer

Name of the Reviewer

Signature with Date

1. Dr. BASAVARAJ GANDAR

 11/8/21

2. Dr. Padmanabha G

 11/8/21


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

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated
to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled "PEDAL POWERED REVERSE OSMOSIS WATER PURIFICATION" carried out by Ananda (1SG18ME400), Anil Kumar R (1SG18ME401), Dhanush U (1SG18ME414), Divakar R (1SG18ME415) 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 2020-21. 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. Madhu Kumar Y C
Assistant Professor

Signature of Project Co-ordinator
Mr. RAMESH N G
Assistant Professor.

Signature of the HOD
Dr. P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

Name of the Examiners

1. Dr. BASAVARAJ GANDAGER
2. Anilkumar. P.R

Signature with Date

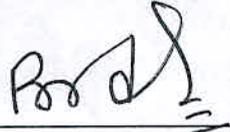
Anil 10/8/21
Anil

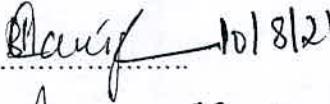
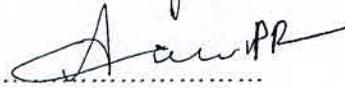
DEPARTMENT OF MECHANICAL ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Hesaragatta, Main Road, Chikkasandara, Bengaluru-560057



CERTIFICATE

Certified that the project work entitled “**MANLESS REMOTE CONTROLLED WEAPON SYSTEM**” carried out by **Prashanth (ISG17ME061), Punith E (ISG17ME064), S M Jagannath (ISG17ME073), Sanjeev S (ISG17ME075)** 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 2020-21. 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.

		
Mr. Pramod S V	Dr. P Mahadevaswamy	Dr. H Ramakrishna
Signature of the Guide	Signature of the HOD	Signature of the Principal
Reviewer		

Name of the Reviewer	Signature with date
1. <u>Dr. BASAVARAS GANDEGER</u>	<u> 10/8/21</u>
2. <u>Anil Kumar P.R</u>	<u></u>


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

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated
to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled "Arduino based Fire Fighting Robot" carried out by Dikshith K A (1SG17ME022), Dinesh kumar A (1SG17ME023), Maruthi A S (1SG17ME042), Nihal M I (1SG17ME048) 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 2020-21. 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. Mahesh S
Assistant Professor

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

Signature of the HOD
Dr. P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

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

Name of the Examiners

1. DY. BASAVARAJ GANDHER
2. Anil Kumar P.R

Signature with Date

Anil 10/8/21
Anil P.R 10/8/2021

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled “Design & Fabrication of Automated wheel chair” carried out by Goutham S B(1SG17ME024), Pavan B M(1SG17ME052), Pavan Kumar C(1SG17ME053), Shreemai N S(1SG16ME098) 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 2020-21. 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. Chethan B P
Assistant Professor

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

Signature of the HOD
Dr. P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

Name of the Examiners

1. DR. TULSIDAS D
2. MAHADEVI S

Signature with Date

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

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated
to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled “**Fabrication of Solar Power Multipurpose Agricultural Vehicle**” carried out by **Chethan Gowda N (1SG17ME016), Dhanush S (1SG17ME021), Hema M (1SG17ME027), Karthik Kumar A (1SG17ME034)** 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 **2020-21**. 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. Basavaraj Ganiger
Associate Professor

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

Signature of the HOD
Dr. P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

Name of the Examiners

1. Dr. TULSIDAS D

2. Ramesh. N.G

Signature with Date

[Signature] 7/8/21

[Signature] 7/8/21

DEPARTMENT OF MECHANICAL ENGINEERING
SAPATHAGIRI COLLEGE OF ENGINEERING
14/5, Hesaraghatta Main Road, Chikkasandra, Bengaluru-560057

[AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM]
(ISO: 9001-2015 and ISO: 14001-2015 certified Instituted)



CERTIFICATE

Certificate that the project work entitled “**Design and Fabrication of Tilting Mechanism for Tricycle with Brushless motor.**” Carried out by **Prajwal S (ISG17ME059), Rakesh D M (ISG17ME066), Roshan A P (ISG17ME071), Raghunatha K R (ISG18ME430)** bonafide students of 8th semester, Department of **Mechanical Engineering of Sapthagiri college of Engineering, Bengaluru** in partial fulfillment of the award of **Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum** during the year 2020-21. 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 respects of project work prescribe for the said degree.


Mr. Ramesh N G
Signature of the guide


Dr. P Mahadevaswamy
Signature of the HOD

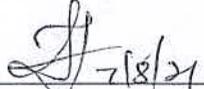

Dr. H Ramakrishna
Signature of the Principal

Reviewer

Name of the Reviewer

1. Dr. Tulsidas D
2. Ramesh. N. G

Signature with Date

 7/8/21
 7/8/21


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

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14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated
to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled “**Design and Fabrication of Automated sanitization machine**” carried out by **Pradeep S Sureban (1SG17ME055), Prajwal Bhardwaj A (1SG17ME056), Pranav S Vishwamitra (1SG17ME060), Shrivatsa S Rao (1SG17ME082)** 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 **2020-21**. 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
Associate Professor

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

Signature of the HOD
Dr.P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

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

Name of the Examiners

1. Dr. Tulsidas D
2. Ramesh. N.G

Signature with Date

7/8/21
7/8/21

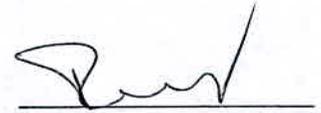


CERTIFICATE

Certified that the project entitled "DESIGN AND FABRICATION OF PNEUMATIC EXO SKELETON" carried out by Shetty Varun Chandrashekar (1SG17ME080), Tejas MN (1SG17ME091), Tejas V (1SG17ME092), Vijay HP (1SG17ME096) 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 2020-21. It is certified that all corrections/suggestions indicated for the Internal Assessment have been incorporated in the Report deposited in the Departmental library. Project report has been approved as it satisfies the academic requirements in respect of Internship Work prescribed for the said Degree.


 DR. P MAHADEVASWAMY
 SIGNATURE OF THE GUIDE


 DR. H RAMAKRISHNA
 SIGNATURE OF THE PRINCIPAL

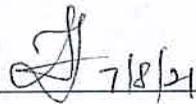

 DR. P MAHADEVASWAMY
 SIGNATURE OF THE HOD

Reviewer

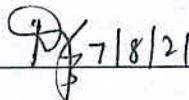
Name of the Reviewer

Signature with Date

1. DR. TULSI DAS D

 7/8/21

2. Ramch. N G

 7/8/21


 Principal

Sapthagiri College of Engineering
 14/5, Chikkasandra, Hesaraghatta Main Road
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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project Work entitled “Design & Fabrication of Self Operated Water Purifier(Using Fruit Peels)” carried out by Abhilesh D (1SG17ME001), Chirag P Hegde (1SG17ME019), Anil P Gouda (1SG17ME005), Ashrith R (1SG17ME010) 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 2020-21. 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. R G Deshpande
Associate Professor

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

Signature of the HOD
Dr. P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
Principal, SCE

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

Name of the Examiners

1. Dr. TULSI DAS D
2. Mahesh

Signature with Date

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 (Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This Certified that the project work entitled “**Development of Collaborative Robot for Quality Inspection**” carried out by **Hemanth U (1SG17ME029)**, **Manoj M (1SG17ME041)**, **Nandan B N (1SG17ME046)**, **Anila Kumara (1SG18ME402)** 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 **2020-21**. 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. MAHESH S
Assistant Professor

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

Signature of the HOD
Dr.P MAHADEVASWAMY
Department of Mechanical Engineering

Signature of Principal.
Dr. H. RAMAKRISHNA
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Principal

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Name of the Examiners

1. Dr. Tulsi Das D

2. Ramesh. N. G

Signature with Date

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)
ISO 9001:2015 & ISO 14001:2015 Certified Institute
Accredited By NAAC with "A" Grade
#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore – 560057
2020-2021

Department of Mechanical Engineering



Certificate

Certified that the Project Work entitled "Design and Fabrication of foldable E-Bike" carried out by Rakesh G K (ISG17ME067), Rohith K C (ISG17ME070), Sumanth S (ISG17ME090) and Vinoop A (ISG17ME098), 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 2020-2021. 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 (17MEP85) prescribed for the said degree.

Signature of the Guide
Dr. Tulsidas D
Assistant Professor

Signature of the HOD
Dr. P Mahadevaswamy
Professor & Head

Signature of the Principal
Dr. H Ramakrishna
Principal

EXTERNAL EXAMINATION:

Principal
Sapthagiri College of Engineering
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Name of the Examiners

1. Dr. Tulsidas D

2. Ramesh. N. G.

Signature with Date

[Signature] 7/8/21

[Signature] 7/8/21