



SAPTHAGIRI COLLEGE OF ENGINEERING
#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-560057
Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled "**MONITORING AND SAFETY DEVICES FOR MOTORCYCLE**" is carried out collectively by **AJAY BHAVA S (1SG16EE403)**, **AKHILESH V (1SG16EE404)**, **HARISH KUMAR M (1SG16EE414)**, **KAUSHITH GOWDA M (1SG16EE418)** bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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.

Mrs. Sumangala S J
Assistant Prof.
Guide

Dr. K N Ravi
Prof. & HOD
EEE Dept

Dr. K L Shivabasappa
Principal
SCE

External Viva

Name of the examiners

1. **Arinash S**
- 2.

Signature with date

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hessarghatta Main Road
Bangalore - 560 057

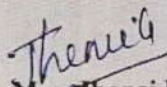
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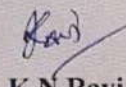


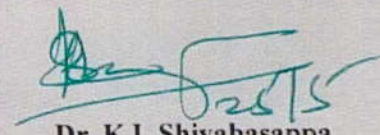
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#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-560057
Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled 'GESTURE CONTROLLED ROBOTIC ARM' is carried out collectively by CHAYA K (ISG15EE025), ARPITHA SRINIVASA MURTHY (ISG15EE012), APOORVA K G (ISG15EE010) and IRENE JACOB (ISG15EE037) bonafide students of 8th semester EEE Dept. 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 2018-2019. 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.


Mrs. Jhansi K
Assistant Prof.
Guide


Dr. K N Ravi
Prof. & HOD
EEE Dept

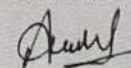

Dr. K L Shivabasappa
Principal

External Viva

Name of the examiners

1. Arinash. S
- 2.

Signature with date

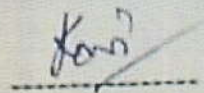
 12/6/19

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hessarghatta Main Road
Bangalore - 560 057

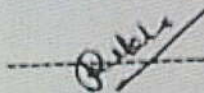
SAPTHAGIRI COLLEGE OF ENGINEERING
#14/5, Chikkasandra, Hesarghatta Main Road, Bangalore-560057
Department of Electrical and Electronics Engineering

CERTIFICATE

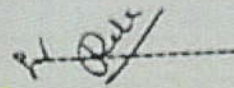
Certified that the project work entitled **STUDY OF SOURCE CHARACTERISTICS ON HVDC SOURCE SET FOR POLLUTION TEST** is carried out collectively by **CHARITHA M C (ISG15EE024), G TEJASHREE (ISG15EE029), GEETHA S (ISG15EE411), HARSHITHA V (ISG15EE036)** bonafide students of 8th semester EEE Dept. in partial fulfillment for the award of degree in Bachelor of Engineering at Saphthagiri College of Engineering affiliated to Visvesvaraya Technological University, Belagavi for the Academic year 2018-2019. 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.



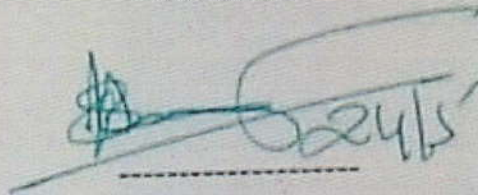
Dr K N Ravi
Prof. & HOD
EEE Dept



Mrs. Rekha S N
Associate Prof.
Coordinator



Mrs. Ramya M
Assistant Prof.
Guide



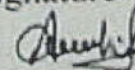
Dr. K L Shivabasappa
Principal

External Viva

Name of the examiners

1. **Prinash**

Signature with date

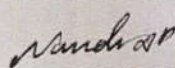
 12/6/19




Department of
ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

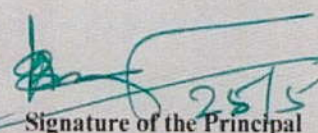
Certified that the project work entitled "FUZZY LOGIC BASED OVER CURRENT PROTECTION SYSTEM FOR INDUCTION MOTOR" carried out by CHANDAN K [ISG16EE409], KEERTHAN KUMAR H N [ISG16EE419], KRANTHIKUMAR G S, [ISG6EE422], LAKSHMANA H R [ISG16EE423], bonafide students of Sapthagiri College Of Engineering in partial fulfillment for the award of **Bachelor of Engineering** in department of **Electrical and Electronics Engineering** of Visveswaraiah Technological University, Belgaum during the academic year **2018-2019**. 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 Bachelor of Engineering Degree.


Signature of the Guide

Mrs. Nandini D B
Asst. Professor
(Project Guide)


Signature of the HOD

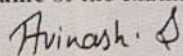
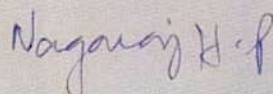
Dr. K N Ravi
Professor & H.O.D
(Guide & Head of the Dept.)


Signature of the Principal


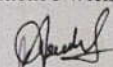
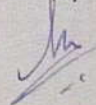
Dr. K L Shivabasappa
Principal
S.C.E Bangalore

External Viva

Name of the examiners

1.  Avinash. S
2.  Nagaraj H. S

Signature with date

  13/6/19
 13/6/19

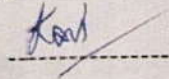
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesarghatta Main Road
Bengaluru - 560 057



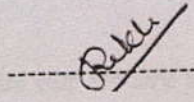
SAPTHAGIRI COLLEGE OF ENGINEERING
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Department of Electrical and Electronics Engineering

CERTIFICATE

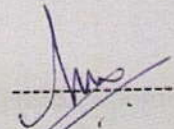
Certified that the project work entitled "**CONTROL OF WATER PUMP FOR IRRIGATION USING NEURAL NETWORK**" is carried out collectively by **ARUNA B P (ISG15EE013), CHAITRA S (ISG15EE019), K LAVENYA (ISG15EE039), MANASA H (ISG15EE046)** bonafide students of 8th semester EEE Dept. in partial fulfillment for the award of degree in **Bachelor of Engineering** at Sapthagiri college of Engineering affiliated to **Visvesvaraya Technological University, Belagavi** for the Academic year **2018-2019**. 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.



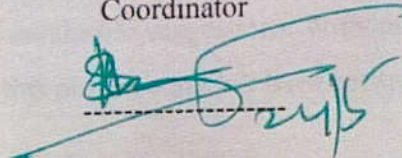
Dr K N Ravi
Prof. & HOD
EEE Dept



Mrs. Rekha S N
Associate Prof.
Coordinator



Mr. Nagaraj H P
Associate Prof.
Guide



Dr K L Shivabasappa
Principal

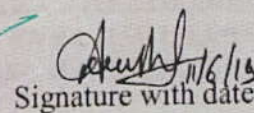
External Viva

Name of the examiners

1. *Swinash. S*
- 2.

Principal

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

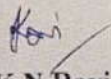

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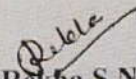


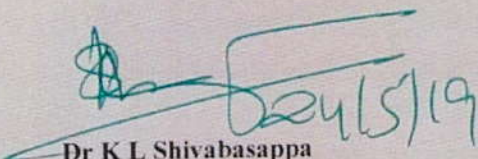
SAPTHAGIRI COLLEGE OF ENGINEERING
#14/5, Chikkasandra, Hessarghatta Main Road, Bengaluru-560057
Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled "**FAULT DETECTION OF INDUCTION MOTOR**" is carried out collectively by **ANNAPURNA SINGH (ISG15EE005)**, **CHANDAN GOWDA P (ISG15EE021)**, **GANESH RAO S (ISG15EE032)**, **LOHITH S (ISG15EE042)** bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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.


Dr. K N Ravi
Prof. & HOD
EEE Dept.


Mrs. Rekha S N
Associate Prof.
Guide

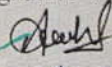
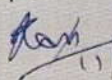

Dr K L Shivabasappa
Principal

External Viva

Name of the examiners

1. **Avinash. P**
2. **Dr. K. N. RAVI**

Signature with date

 11/6/19
 11/6

Principal

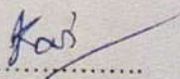
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14/5, Chikkasandra, Hessarghatta Main Road
Bengaluru - 560 057



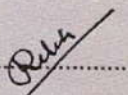
SAPTHAGIRI COLLEGE OF ENGINEERING
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Department of Electrical and Electronics Engineering

CERTIFICATE

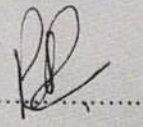
Certified that the project work entitled "DEVELOPMENT OF ENERGY MANAGEMENT SYSTEM (EMS) FOR SOLAR PHOTO VOLTAIC POWER PLANT TO SUPPLY POWER FOR COTTAGE INDUSTRIES WITHOUT USING BATTERY BANK" is carried out collectively by NITHYA.J (1SG15EE060), PRIYA. J (1SG15EE067), SURABHI.M (1SG15EE090), MEGHANA.M S (1SG15EE422) bonafide students of 8th semester EEE Dept. 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 2018-2019. 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.


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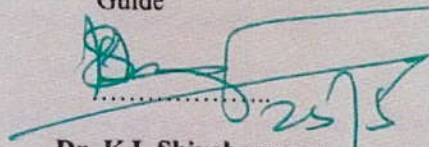
Dr K.N Ravi
Prof. & HOD
EEE, Dept


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Mrs. Rekha. S N
Associate Prof.
Guide


.....

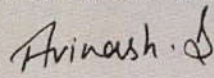
Mr. Rukmangada. R
Senior lecturer.
Guide


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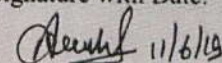
Dr. K.L Shivabasappa
Principal

External Viva

Name of the examiners.

1. 
2. _____

Signature with Date.

 11/6/19

Principal

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



SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-560057

Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **TEMPERATURE AND HUMIDITY MONITORING SYSTEM AND HUMAN DETECTION IN STORAGE ROOM OF INDUSTRIES** is carried out collectively by NAVYA S R (ISG15EE058), CHAITHRA V (ISG15EE098), AKHILESH V KALGUTKAR (ISG16EE405), MANOJ N (ISG15EE051) bonafide students of 8th semester EEE Dept. 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 **2015-2019**. 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.

Dr. K N Ravi
Prof. & HOD
Coordinator

Mrs. JHANSI K
Assistant Prof. EEE
Guide

Mr. SHIVARAJ A
Assistant Prof. EEE
Guide

Dr. K L SHIVABASAPPA
Principal

External Viva

Name of the Examiners

1. Avinash
- 2.

Signature with date

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



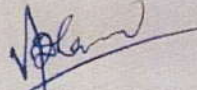
SAPTHAGIRI COLLEGE OF ENGINEERING

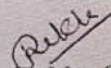
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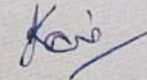
Department of Electrical and Electronics Engineering

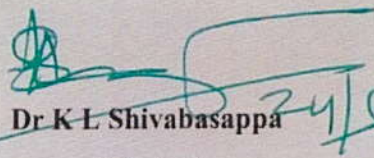
CERTIFICATE

Certified that the project work entitled **AGROBOT** is carried out collectively by **ANUSHA B (ISG15EE008)**, **C S MOHANA (ISG15EE017)**, **JEEVITHA A (ISG15EE038)**, **KEERTHANA R (ISG15EE041)**, bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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. A Dhamodaran
Assistant Prof.
Guide

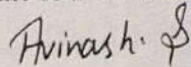

Mrs. Rekha S N
Associate Prof.
Project Coordinator


Dr. K N Ravi
Prof & HOD
EEE Dept.

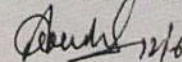

Dr. K L Shivabasappa
Principal

External Viva

Name of the examiners

1. 
- 2.

Signature with date



Principal

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



SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-560057

Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **DESIGN AND IMPLEMENTATION OF OFF GRID SOLAR PV SYSTEM IN A PART OF SCE CAMPUS** is carried out collectively by **NANDEESH K S (ISG15EE426), NAYANASHREE B (ISG16EE431), NITHIN G (ISG16EE434), RAKESH S (ISG16EE439)**, bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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. A Dhamodaran

Assistant Prof.

Guide

Dr. K N Ravi

Prof & HOD

EEE Dept.

Dr K L Shivabasappa

Principal

External Viva

Name of the examiners

1. Bharathi, S. K.

2. Nagaraj H. P.

Signature with date

Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hessarghatta Main Road
Bangalore - 560057




SAPTHAGIRI COLLEGE OF ENGINEERING

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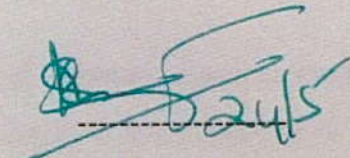
Department of Electrical and Electronics Engineering

CERTIFICATE

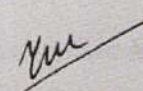
Certified that the project work entitled **DESIGN OF ROTATING WHEEL FOR POLLUTION TEST OF POLYMERIC SAMPLES** is carried out collectively by **SANDESH V (1SG15EE080), SHRUJANA R KUMAR (1SG15EE084), SRIKANT KADGI (1SG15EE086), SUMANTH S (1SG15EE088)** bonafide students of 8th semester EEE Dept. in partial 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 **2018-2019**. 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.



Dr K N Ravi
Prof. & HOD
EEE Dept



Dr K Shivabasappa
Principal



Mrs. Yousuf Madar
Assistant Prof.
Guide

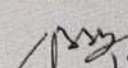
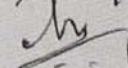

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hessarghatta Main Road
Bangalore - 560 057

External Viva

Name of the examiners

1. Bharati S. K.
2. Naganna H P

Signature with date

 14/06/2019
 14/6/19



SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesarghatta Main Road, Bangalore-560057

Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **STUDY OF SOURCE CHARACTERISTICS ON HVDC SOURCE SET FOR POLLUTION TEST** is carried out collectively by **CHARITHA M C (1SG15EE024), G TEJASHREE (1SG15EE029), GEETHA S (1SG16EE411), HARSHITHA V (1SG15EE036)** bonafide students of 8th semester **EEE Dept.** 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 **2018-2019**. 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.

Dr K N Ravi
Prof. & HOD
EEE Dept

Mrs. Rekha S N
Associate Prof.
Coordinator

Mrs. Ramya M
Assistant Prof.
Guide

Dr. K L Shivabasappa
Principal

External Viva

Name of the examiners

1. Vinash
2. Dr. K. N. Ravi

Signature with date

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

Signature with date
12/6



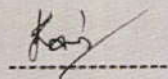
SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-
560057

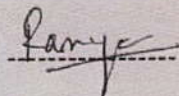
Department of Electrical and Electronics Engineering

CERTIFICATE

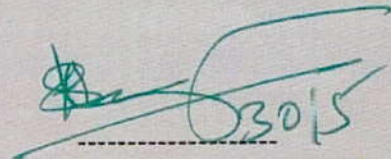
Certified that the project work entitled **SMART HEMLET** is carried out collectively by **ANTONY ROSHAN JOY DSOUZA (1SG15EE006)**, **CHANDAN G (1SG15EE020)**, **DHANUSH P (1SG15EE027)**, **HARSHITH GOWDA S (1SG15EE035)** bonafide students of 8th semester EEE Dept. in partial fulfillment for the award of degree in **Bachelor of Engineering** at Sapthagiri college of Engineering affiliated to **Visvesvaraya Technological University, Belagavi** for the academic year **2018-2019**. 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.



Dr K N Ravi
Prof. & HOD
EEE Dept



Mrs. Ramya M
Assistant Prof., EEE
Guide



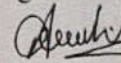
Dr K L Shivabasappa
Principal

External Viva

Name of the examiners

1. **Arinash . S**
- 2.

Signature with date

 11/6/19

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hessarghatta Main Road
Bangalore - 560 057



SAPTHAGIRI COLLEGE OF ENGINEERING
#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-560057
Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **HEART ATTACK DETECTOR** is carried out collectively by **MEGHANA S HULIKAL (ISG15EE053), MOUNIKA G B (ISG15EE056), PRARTHANA A PADMANABH (ISG15EE064), SWATHI B C (ISG15EE091)** bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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.

Dr K N Ravi
Prof. & HOD
EEE Dept

Mrs. Ashwini C
Assistant Prof.
Guide

Dr. K L Shivabasappa
Principal

External Viva

Name of the examiners

1. Bharati . S . u .
2. Nagaraj . H . f

Signature with date

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hessarghatta Main Road
Bangalore - 560 057

14/06/2019
14/6/19



SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-560057

Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **HIGH EFFICIENCY REMANUFACTURING OF INDUCTION MOTOR** is carried out collectively by **MOHAMED JAFFER SAADIQ(1SG15EE054), RAMACHANDRA(1SG15EE073), SOUNDARYA.M (1SG15EE085), VARUN K.M(1SG16EE450)** bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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 Bharath B.N
Assistant Professor
Guide

Dr K.N Ravi
Prof. & HOD
EEE

Dr K L Shivabasappa
Principal

EXTERNAL VIVA

Name of the examiner

1. Arinash. S
2. Nagaraj. H. P

Signature with date

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hessarghatta Main Road
Bangalore - 560 057



SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-

560057

Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **SOLAR BASED MULTI-TASKING AGRICULTURE VEHICLE** is carried out collectively by **NILESH N GUNJIKAR(1SG16EE432)**, **RAGHAVENDRA M(1SG15EE070)**, **SHASHANK K S(1SG16EE443)**, **SUPRIYA P R(1SG15EE089)** bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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.

Dr K N Ravi

Prof. & HOD

EEE Dept

Mr. Guru Prasanna

Senior Lecturer

Guide

Dr. K L Shivabasappa

Principal

External Viva

Name of the examiners

1. Nagaraj H. S.
2. Avinash. S.

Signature with date

13/6/19

13/6/19

Principal

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



SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesarghatta Main Road, Bangalore-560057 Department
of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **SOLAR POWER GENERATION USING FRESNEL LENS ON SOLAR PANEL** is carried out collectively by **DARSHAN N (ISG15EE027)**, **MANOJ B N (ISG15EE050)**, **JAYANTH M V (ISG16EE415)**, **KIRAN KUMAR K (ISG16EE420)** bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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.

Dr. K N Ravi
Prof. & HOD
EEE Dept

Mr. Nagaraj H P
Associate Prof
Guide


Dr. K L Shivabasappa
Principal

External Viva

Name of the examiners

1. **Arinash**
- 2.

Signature with date

 12/6/19

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



SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-
560057

Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **CROSS BORDER INFILTRATION DETECTION AND PROTECTION SYSTEM** is carried out collectively by **PAWAN KUMAR D (15G15EE061) RAVI PRAKASH H (15G15EE076) SHARATH C (15G15EE083) VISHAL S PUJARI (15G15EE097)** bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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.

Dr K N Ravi
Prof. & HOD
EEE Dept

Mrs. Rekha S N
Associate Prof.
Guide

Mrs. Preetha N P
Assistant Prof.
Guide

Dr. K L Shivabasappa
Principal

External Viva

Name of the examiners

1. Bharati S. H.
2. Nagaraj H. P.

Signature with date

14/06/2019

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hessarghatta Main Road
Bangalore - 560 057



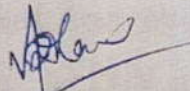
SAPTHAGIRI COLLEGE OF ENGINEERING

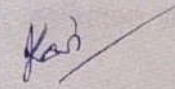
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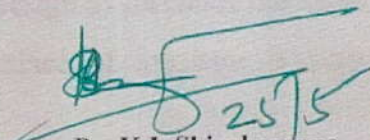
14/5, Hesarghatta Main Rd, Chikkasandra, Jalahalli West, Bengaluru, Karnataka 560057

CERTIFICATE

Certified that the project work entitled "DESIGN OF INSULATOR FOR POLLUTED CONDITIONS AND INSPECTION OF POLLUTION ON INSULATOR AT SITE USING UAVs" collectively by carried out D MANISH NAICKER (ISG15EE026), GURURAJA D(1SG15EE034), MANISH MANJUNATH NARAYANA RAO (1SG16EE047), MANOHARA.S (1SG15EE049) bonafide students of 8th semester EEE Dept, Sapthagiri College Of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics department of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. 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.

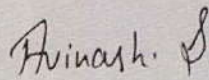

Mr. A Dhamodaran
Assistant Professor


Dr. K N Ravi
Professor and HOD


Dr. K L Shivabasappa
Principal


External Viva

Examiner

1. 

2.

Signature with date:

 11/6/19


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

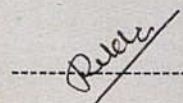


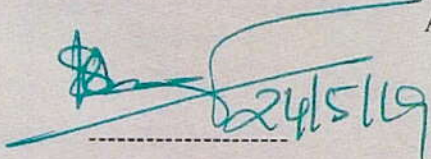
SAPTHAGIRI COLLEGE OF ENGINEERING
#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057
Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **HAND GESTURE WHEEL CHAIR** is carried out collectively by **SHANU (ISG15EE082), VINUTHA D (ISG15EE096), RAGI JAYA (ISG15EE072), NETHRA R (ISG15EE059)** bonafide students of 8th semester **EEE Dept.** 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 **2018-2019**. 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.

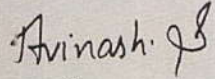
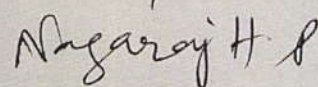

Dr. K N Ravi
Prof. & HOD
EEE Dept.


Mrs. Rekha S N
Associate Prof.
EEE Dept.

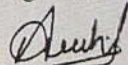

Dr. K L SHIVABASAPPA
Principal

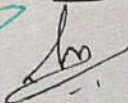
External Viva


Name of the examiners

1.  Avinash
2.  Nagaraj H

Signature with date

 13/6/19

 13/6/19

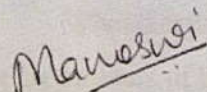

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057



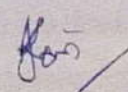
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

CERTIFICATE

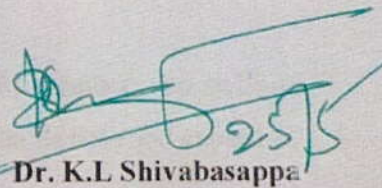
Certified that the project work entitled "LANDMINE DETECTION ROBOTIC VEHICLE WITH GPS POSITIONING USING ARM PROCESSOR" is carried out by ANUP H V bearing 1SG15EE007, BALAJI VENKATESH KALKONDA bearing 1SG15EE015, KARTHIK B bearing 1SG15EE040, CHANDAN KUMAR bearing 1SG15EE022, bonafide students of Sapthagiri College of Engineering in partial fulfilment for the award of Bachelor of Engineering in department of Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2018-2019. It is certified that all corrections/suggestions indicated in the Internal Assessment have been incorporated in the report deposited. The Project report has been approved as it satisfies the academic requirements in respect of Project Work Phase II (15EEP85) prescribed for the Bachelor of Engineering Degree.


Mrs. Manaswi.K. J

Asst. Professor


Dr. K.N. Ravi

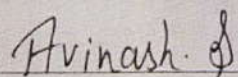
Professor & H.O.D

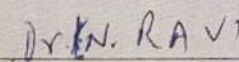

Dr. K.L. Shivabasappa

Principal

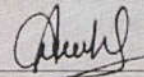
EXTERNAL EXAMINATION:


Name of the Examiners

1.  Avinash

2.  Dr. K.N. Ravi

Signature with date

 11/6/19

 21/6

Principal



SAPTHAGIRI COLLEGE OF ENGINEERING
#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-
560057
Department of Electrical and Electronics Engineering

CERTIFICATE

Certified that the project work entitled **EFFICIENT HYBRID POWER GENERATION USING HELICAL WIND TURBINE AND SOLAR TRACKING SYSTEM** is carried out collectively by **ANUSHA K (ISG15EE009)**, **ARPITA SHARMA (ISG15EE011)**, **ATHIYA MOHAMMADI (ISG15EE014)**, **CHANDANA B (ISG15EE023)** bonafide students of 8th semester EEE Dept. 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 **2018-2019**. 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.

Dr K N Ravi
Prof. & HOD
EEE Dept

Mrs. Rekha S N
Associate Prof.
Guide

Mrs. Sumangala S Jambli
Assistant Prof.
Guide

Dr K L Shivabasappa
Principal

External Viva

Name of the examiners

1. Avinash. S
2. Nayanaj H. S

Signature with date



Department of
ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the project work entitled "ELECTROMAGNETIC RADIO RECEIVER A DESIGN FOR RECEIVING JUPITER SIGNAL" carried out by R. ABHISHEK, USN [1SG15EE068], RACHANA M, USN [1SG15EE069], bonafide students of 8th semester EEE dept in partial fulfillment for the award of degree in Bachelor of Engineering at Sapthagiri College of Engineering department affiliated to Visveswaraiah Technological University, Belgavi during the academic year 2018-2019. 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 Bachelor of Engineering Degree.

Signature of the Guide
Mr. Rukmangada. R
Senior Lecturer
(Project Guide)

Signature of the HOD
Dr. K N Ravi
Professor & H.O.D
(Head of the Dept.)

Signature of the Principal
Dr. K L Shivabasappa
Principal
S.C.E Bangalore

External Viva

Name of the examiners

1. Nagaraj. H. P
2. Avinash. P

Signature with date

Principal

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