




SAPTHAGIRI COLLEGE OF ENGINEERING
Bengaluru- 560057

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "Evidence Collection from Automobile Black Box using Smart Phone " carried out by Ms. Nayana H J (ISG15EC064), Ms. Pavitra (ISG15EC073), Ms. Rajeshwari R (ISG16EC420), Ms. Uma R (ISG16EC429) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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
Prof. Shobha H
Assistant Professor

 12/6/2019

Signature of the HOD
Dr. H C Sateesh Kumar
Professor and HOD

 12/6/19

Signature of the Principal
Dr. K L Shivabasappa
Principal

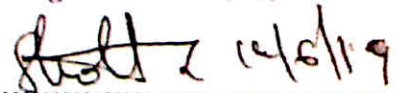
External Viva

Name of the Examiners

1. S. SHOBHA

2. C. Rangaswamy

Signature with date

 14/6/19

 14/6/19


Principal

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

SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057.


(Affiliated To VTU, Belagavi & Approved By AICTE, New Delhi)

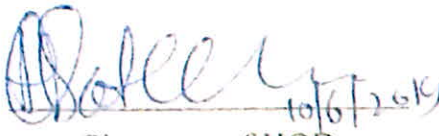
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

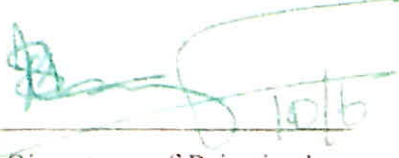


CERTIFICATE

Certified that the project work entitled “**DESIGN OF ROBOT BASED SMART CAFÉ SYSTEM**” carried out by **Mr. Ganesh G. (ISG16EC411)**, **Ms. Lavanya M. L. (ISG15EC053)**, **Mr. C. S. Adith Kiran (ISG15EC023)**, **Ms. Ann Nileena Henry C. (ISG15EC012)** bonafide students of 8th Semester **Electronics and Communication Engineering** in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2018–19**. 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
Prof. Agalya P.
Associate Professor
Department of ECE


Signature of HOD
Dr. H. C. Sateesh Kumar
Professor & Head
Department of ECE


Signature of Principal
Dr. K. L. Shivabasappa
Principal
SCE, Bengaluru

External Viva

Name of the Examiners

Principal Signature with Date

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



SAPTHAGIRI COLLEGE OF ENGINEERING

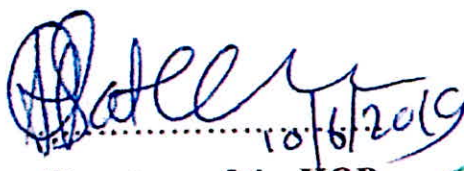
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057

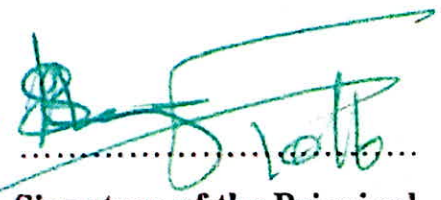
Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "COIN BASED MOBILE CHARGING SYSTEM" carried out by Ms. SUSHMA K S (1SG15EC121), Ms. SUMITHRA S (1SG15EC122), Mr. SHIVA S (1SG16EC425), Mr. VARUN KUMAR S (1SG16EC431) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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


.....
Signature of the HOD


.....
Signature of the Principal
Principal

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

External Viva

Name of the examiners

1.P. Agalga

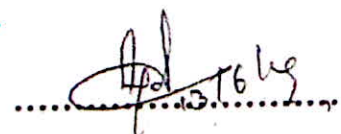
2.C. Ranganwamy



Principal

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

Signature with date


.....


.....

SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057.

(Affiliated To VTU, Belagavi & Approved By AICTE, New Delhi)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

Certified that the project work entitled “**RETINAL DISEASE SCREENING THROUGH LOCAL BINARY PATTERN**” carried out by Ms. Anusha S. (1SG16EC401), Ms. Bharathi Y.C. (1SG16EC408), Ms. Divyashree M.R. (1SG16EC410), Ms. Kavyashree N. (1SG16EC412) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018–19. 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
Mrs. Shilpa V.
Assistant Professor
Department of ECE

Signature of HOD
DR. H. C. Sateesh Kumar
Professor & Head
Department of ECE

Signature of Principal
DR. K. L. Shivabasappa
Principal
SCE, Bengaluru

External Viva

Name of the Examiners

1. S. SHOBHA

Signature with Date

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



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled “ANTI-THEFT VEHICLE TRACKING SYSTEM USING GSM AND GPS” carried out by Mr. SAI SIDDHARTH M. (ISG15EC091), Mr. NIKHIL R.A. (ISG15EC067), Mr. RAVI C. (ISG15EC090) and Mr. PRAJWAL K. (ISG15EC076), bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belgavi during the year 2018-19. 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
Prof. Prathibha P.
Assistant Professor
Dept. of ECE

Signature of the HOD
Dr. H. C. Sateesh Kumar
Professor & HOD
Dept. of ECE

Principal
Signature of the Principal
Dr. K. L. Shyabasappa
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore - 560 057
SCE, Bengaluru

External Viva

Name of the examiners

1. P. Agalya
2. C. Rangaswamy

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


Signature with date



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057
Department of Electronics and Communication Engineering

CERTIFICATE

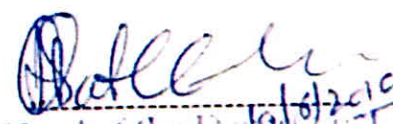
Certified that the project work entitled "AUTOMATIC SPEAKER RECOGNITION" carried out by Mr. Harsha KB (ISG15EC038), Mr. Karthik K (ISG15EC045), Mr. Girish S (ISG15EC035), Mr. Goutham M (ISG15EC036) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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

Vani V

Assistant Professor



Head of the Department
Signature of the HOD
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore- 560 057
Professor and HOD




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

External Viva

Name of the Examiners


1. S. Suresh Kumar


2. C. Ramesh Kumar



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

Signature with date



17/6/19


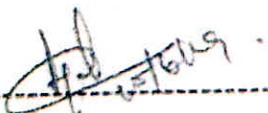



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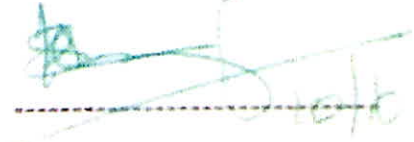
Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "MULTIMEDIA CONTROLLER" carried out by Mr. Ankit Priyam (1SG15EC010), Mr. AnuPriye (1SG15EC013) and Mr. Dharmkirti Kumar (1SG15EC030) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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
Prof. Agalya Sivakumar
Associate Professor
Dept. of ECE, SCE



Signature of the HOD
Dr. H.C. Sateesh Kumar
Professor & Head
Dept. of ECE, SCE


Signature of the Principal
Dr. K. L. Shivabasappa
Principal, SCE

Name of the Examiners

1. 

External Viva


Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bengaluru- 560057

Signature with Date





SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "HOME AUTOMATION USING ARTIFICIAL INTELLIGENCE" carried out by Mr. Ankit Shivhare (1SG15EC011), Mr. Ashwani Gupta (1SG15EC016) & Mr. Bipul Kumar (1SG15EC022) bonafide students of 8th semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

10/6/19

Signature of the Guide

Prof. Preethi.T.S

10/6/2019

Signature of HOD

Dr. H.C. Sateesh Kumar

10/6

Signature of Principal

Dr. K L Shivabasappa

External Viva

Name of the Examiners

1. P. Agalya
2. C. Rangaswamy

Principal

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

Signature with Date

13/6/19



CERTIFICATE

Certified that the project work entitled "V CARE HEALTH MONITORING SYSTEM" carried out by Mr. Abhishek K. (ISG15EC002), Ms. Chandana DL. (ISG15EC024), Ms. Charitha BM.(ISG15EC026) bonafide students of 8th Semester I ctronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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.

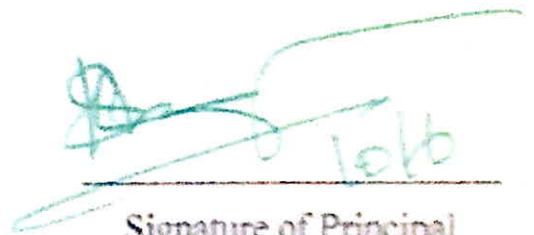


Signature of the Guide and HOD

DR. H. C. Sateesh Kumar

Professor and Head

Department of ECE



Signature of Principal

DR. K. L. Shivabasappa

Principal

Department of ECE

External Viva

Name of the Examiners

Signature with Date

Principal

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

P. Ananya





SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057
Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "VEHICLE SECURITY WITH ZONE-WISE SPEED CONTROL" carried out by Mr.Abhijith N (ISG15EC001), Mr.Chirag S (ISG15EC027), Mr.Harish C (ISG15EC037), Mr.Manoj G (ISG15EC057) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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
Thimmaraja Yadava G
Assistant Professor
Dept. of ECE, SCE

Signature of the HOD
Dr. H C Sateesh Kumar
Professor and Head
Dept. of ECE, SCE

Signature of the Principal
Dr. K L Shivabasappa
Principal
SCE

External Viva

Name of the examiners

1. S. Shobha
2. C. Rangaswamy

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


Signature with date




SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057
Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "AUTOMATIC SPEAKER RECOGNITION" carried out by Mr. Harsha KB (ISG15EC038), Mr. Karthik K (ISG15EC045), Mr. Girish S (ISG15EC035), Mr. Goutham M (ISG15EC036) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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
Vani V
Assistant Professor


Head of the Department
Signature of the HOD
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bengaluru- 560 057
Professor and HOD


Principal
Signature of the Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bengaluru- 560 057
Principal

External Viva

Name of the Examiners


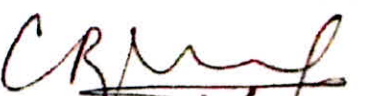
1. S. Suresh Kumar

2. C. Ramesh Kumar

Principal

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

Signature with date

 17/6/19


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



CERTIFICATE

Certified that the project work entitled "Smart IoT Based Water Supply Management System" carried out by Ms. Anusha V Murthy (1sg16ec402), Mr. Harshith K Gowda (1sg14ec037), Mr. Manjunatha B (1sg16ec413), Ms. Ramya S K Jadav (1sg13ec131) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering, Bangalore of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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
Prof. Ravi Shankara M N

Signature of the HOD
Dr. H.C. Sateesh Kumar

Signature of the Principal

Dr. K.L. Shivabasappa
Principal

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

External Viva

Name of the Examiner

1. P. Agalya

2. C. Rangaswamy

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

Signature with date



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "**FIRE DETECTION AND EXTINGUISHING ROBOT**" carried out by Mr. VEERESH M (ISG15EC114), Mr. PRUTHVI R (ISG15EC084), Mr. MOHAN VARMA K (ISG15EC061), Mr. VINAYAKA L S (ISG15EC116) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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

.....10/6/2019
Signature of the HOD

.....10/6/19
Signature of the Principal
Principal

Name of the examiners

External Viva

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

Signature with date

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



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled **“IoT BASED SMART LIBRARY MANAGEMENT SYSTEM”** carried out by Ms. Ranjitha R (ISG13EC088), Ms. Prema K S (ISG15EC082), Ms. Pooja J (ISG16EC415), Ms. Ramya T K (ISG16EC421) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belgavi during the year 2018-19. 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.

.....S/S.....11.06.19

Signature of the Guide

Prof. Sangeeta K Siri

Assistant Professor

Dept. of ECE

.....Dr. H. C. Sathish Kumar.....11/6/19

Head of the Department
Signature of the HOD
Dr. H. C. Sathish Kumar
Professor & HOD
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bengaluru - 560 057

Dept. of ECE

.....Principal.....11/06

Signature of the Principal
Dr. K. L. Shivubasappa
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bengaluru - 560 057

SCE, Bengaluru

External Viva

Name of the examiners

S. S. S. S. S.

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

Signature with date

.....11/6/19

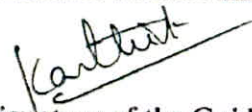



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057


Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "ADVANCED E-VOTING SYSTEM." carried out by Mr. ABHISHEK N. (ISG15EC003), Mr. ANJAN O. (ISG15EC009), Mr. B. NIKHILESWAR REDDY (ISG15EC018), Mr. BANADESH (ISG16EC405) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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
Prof. KARTHIK N.C.
Lecturer
Dept. Of ECE


Signature of the HOD
Dr. H. C. SATEESH KUMAR
Professor & Head
Dept. Of ECE


Signature of the Principal
Dr. K. L. SHIVABASAPPA
Principal
SCE, Bengaluru

External Viva

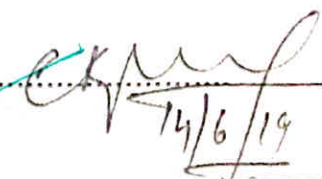
Name of the Examiners

Signature with date

1. S. Sathya

 14/6/19

2. C. Rangaswamy


 14/6/19


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING
Bengaluru- 560057




CERTIFICATE

Certified that the project work entitled "**SMART WASTE MONITORING AND ALERTING SYSTEM USING IoT**" carried out by Ms. Divya B (ISG15EC032), Ms. Divya R (ISG15EC033), Ms. Smitha B Biradar (ISG15EC105), Ms. Varshini N (ISG15EC113) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. It is certified that all corrections 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
Prof. Shwetha G
Assistant Professor
Dept. of ECE



Signature of the HOD
Dr. H.C. Sateesh Kumar
Head of the Department
Electronics & Communication
Dept. of ECE
Sapthagiri College of Engineering
Bengaluru- 560 057


Signature of the Principal
Dr. K. L. Shivabasappa
Principal
Sapthagiri College
Chikkasandra, Hesaraghatta Road,
SCE, Bengaluru
Bengaluru-560 057

External Viva

Name of the examiners

1. P. Agalya
2. C. Raveendran


Signature with date
P. Agalya
7/13/6/19



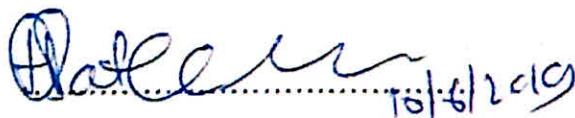
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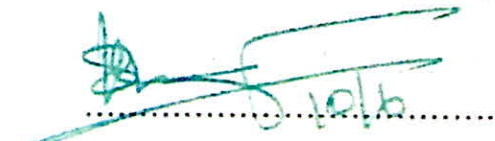
Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "V 2 V Communication" carried out by Submitted by NEHA S (ISG15EC065), POOJA S BHAT (ISG15EC075) , SANJANA S (ISG15EC094), SUKANYA KRISHNA POOJARI (ISG15EC108) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering, Bengaluru of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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 and HOD



Signature of the Principal

Principal

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

External Viva

Name of the examiners

1.....P. Agalya.....

2.....C. Rameshwarany.....

Signature with date





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Bangalore- 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057.


(Affiliated To VTU, Belagavi & Approved By AICTE, New Delhi)

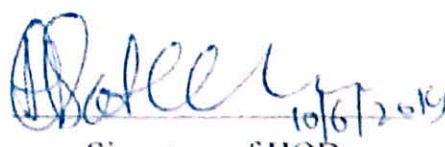
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING




CERTIFICATE

Certified that the project work entitled “**DESIGN OF ROBOT BASED SMART CAFÉ SYSTEM**” carried out by **Mr. Ganesh G. (ISG16EC411)**, **Ms. Lavanya M. L. (ISG15EC053)**, **Mr. C. S. Adith Kiran (ISG15EC023)**, **Ms. Ann Nileena Henry C. (ISG15EC012)** bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018–19. 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
Prof. Agalya P.
Associate Professor
Department of ECE


Signature of HOD
Dr. H. C. Sateesh Kumar
Professor & Head
Department of ECE


Signature of Principal
Dr. K. L. Shivabasappa
Principal
SCE, Bengaluru

External Viva

Name of the Examiners


Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bengaluru - 560057

Signature with Date



SAPTHAGIRI COLLEGE OF ENGINEERING

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

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "LI-FI BASED DATA AND AUDIO COMMUNICATION" carried out by Ms. POOJA R (ISG15EC074), Ms. PRIYADARSHINI C (ISG15EC083), Ms. REKHA R (ISG15EC085) and Mr. R PRASHANTH (ISG16EC418) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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.

Suma V Shetty

Signature of the Guide

Prof. Suma V Shetty

Dr. H C Sateesh Kumar
10/6/2019

Signature of the HOD

Dr. H C Sateesh Kumar
Head of the Department
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore- 560 057

External Viva

Dr. H C Sateesh Kumar
10/6/2019

Signature of the Principal

Dr. H C Sateesh Kumar
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore- 560 057

Name of the Examiners

P. Agalya

Signature with Date

Dr. H C Sateesh Kumar
10/6/2019


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

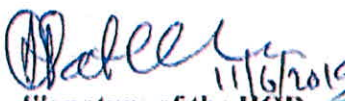
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING
Bengaluru - 560057

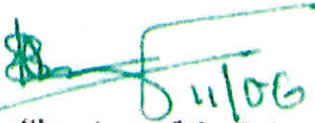


CERTIFICATE

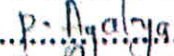
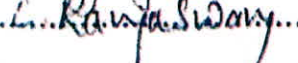
Certified that the project work entitled **"SMART WASTE MONITORING AND ALERTING SYSTEM USING IoT"** carried out by Ms. Divya B (ISG15EC032), Ms. Divya R (ISG15EC033), Ms. Smitha B Biradar (ISG15EC105), Ms. Varshini N (ISG15EC113) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. It is certified that all corrections 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
Prof. Shwetha G
Assistant Professor
Dept. of ECE


Signature of the HOD
Dr. H.C. Sateesh Kumar
Professor & Head
Dept. of ECE


Signature of the Principal
Dr. K. L. Shivabasappa
Principal
SCE, Bengaluru

Name of the examiners



- 1.....
- 2.....

External Viva

Principal

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

Signature with date



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057
Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "BLINK TALK COMMUNICATION USING BRAINSENSE FOR PARALYZED PEOPLE" carried out by Ms. Kavyashree G S (1SG15EC046), Ms. Geetha M (1SG15EC054), Ms. Niveditha S (1SG15EC071), Ms. Harshitha L (1SG15EC059) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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

Prof. Padmaravathi C

Assistant Professor

Dept of ECE

Signature of HOD

Dr. H.C. Sateesh Kumar

Professor & Head

Dept of ECE

Signature of Principal

Dr. K.L. Shivabhusappa

Principal

SCE, Bengaluru Engineering

Chikkasandra, Hesaraghatta Road

Bangalore-560057

Signature with Date

Name of the Examiners

1. S. Narayana

2. C. Ranganatha

Principal


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

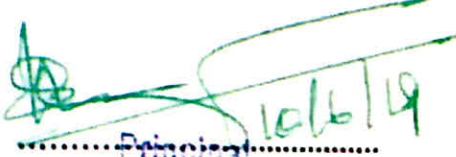


SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057
Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "SMART SPEAKING GLOVE FOR SPEECH IMPAIRED PEOPLE", carried out by Ms. MEGHANA A S (ISG15ECO59), Ms. NIVEDITHA M (ISG15EC070), Ms. PRATHIBHA K (ISG15EC081), Ms. RAKSHA G R (ISG15EC087) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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 & MOD
Head of the Department
Dr. H. C. Satresh Kumar
Electronics & Communication
Sapthagiri College of Engineering
Professors & Head
Bangalore- 560 057
Dept. of ECE


Signature of the Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore- 560 057
Principal,
SCE, Bengaluru

External Viva

Name of the examiners

1. P. Agalya

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

Signature with date


Principal



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057

Department of Electronics and Communication Engineering


CERTIFICATE

Certified that the project work entitled "**QR CODE AND CLOUD BASED HOME SECURITY SYSTEM USING RASPBERRY PI**", carried out by SAILESH S. (ISG14EC085), PRAMUKH H M. (ISG14EC417), PAVAN N. (ISG15EC414), GODI SAHITHI (ISG14EC034), bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belgavi** during the year 2018-19. 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
14/5/19.

Mrs. Shwetha G.

Assistant Professor, Dept of ECE


Signature of the HOD
14/6/2019
Head of the Department

Dr. Sateesh Kumar

HOD, Dept of ECE

Bangalore- 560 057


Signature of the Principal
14/6/19

Dr. K. L. Shivabasappa

Sapthagiri College of Engineering

Chikkasandra, Hesaraghatta Main Road,
Bangalore- 560 057

External Viva

Name of the examiners

- 1.
2. C. Rangaswamy

Principal

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

Signature with date





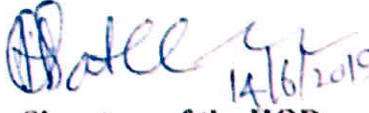
SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "**Stock Monitoring And Secure Shopping System**", carried out by Sanjay S Joshi (ISG15EC427), Bhojanna K T (ISG15EC405), Sujith Kumar R (ISG15EC431), Anirudh Singh Chauhan (ISG14EC012) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belgavi during the year 2018-19. 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 14/06/19


Signature of the HOD 14/6/2019


Signature of the Principal 14/6


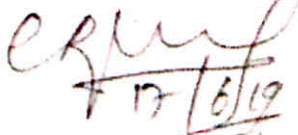
External Viva

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

Name of the examiners

1. S. S. D. D. A.
2. C. Rangaswamy

Signature with date


17/6/19

17/6/19

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057

Department of Electronics and Communication Engineering

CERTIFICATE

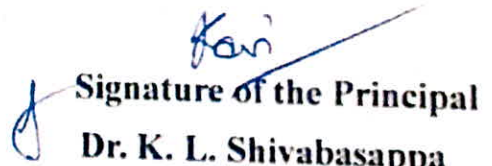
Certified that the project work entitled "**CONTENT BASED IMAGE RETRIEVAL FRAME WORK USING COLOR DESCRIPTOR**" carried out by Mrs. BHAVYA.S (ISG15EC404), Mrs. PRIYANK.B (ISG15EC418), Mrs. SOUMYA.Y.B (ISG15EC430) and Mrs. SHUSHRUTHA.B (ISG15EC429) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belgavi during the year 2017-18. 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.


15/6/19

Signature of the Guide
Mrs. Preethi S
Assistant Professor
Dept. ECE, SCE


17/6/2019

Signature of the HOD
Dr. H C Sateesh Kumar
Head of the department
Dept. ECE, SCE


17/6/19

Signature of the Principal
Dr. K. L. Shivabasappa
Principal of SCE

External Viva

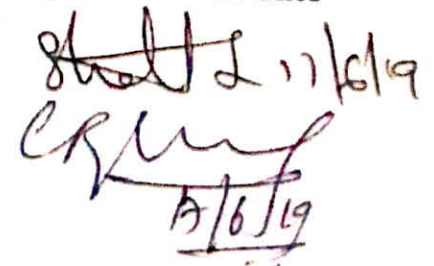
Name of the examiners

1. S. S. Subash
2. C. Rangaswamy



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

Signature with date


17/6/19



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057

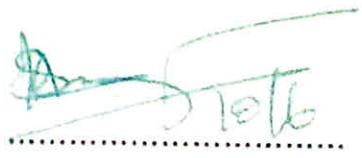
Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "**FIRE DETECTION AND EXTINGUISHING ROBOT**" carried out by Mr. VEERESH M (ISG15EC114), Mr. PRUTHVI R (ISG15EC084), Mr. MOHAN VARMA K (ISG15EC061), Mr. VINAYAKA L S (ISG15EC116) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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


.....
Signature of the HOD

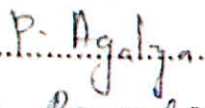
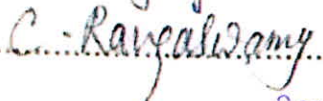

.....
Signature of the Principal
Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore-560057

External Viva

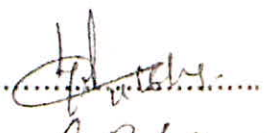
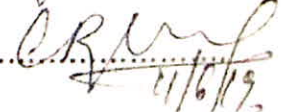
Name of the examiners

Signature with date

1. 
.....
2. 
.....


Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560057


.....

.....
4/6/19

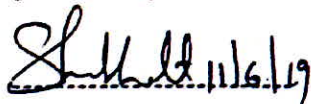


SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "AUTOMATED PLANTATION SYSTEM" carried out by **Mr. Koslender Singh (ISG15EC048)**, **Mr. Nishant Kumar (ISG15EC69)**, **Mr. Shashank Shekhar (ISG15EC099)** and **Ms. Vaishnavi R Shetty (ISG15EC112)** bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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

Prof. Shobha. H

Assistant Professor

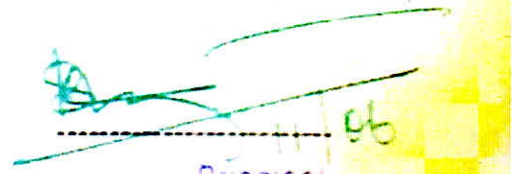
Dept. of ECE



Signature of the HOD

Dr. H.C. Sateesh Kumar

Head of the Department
Professor & Head
Electronics & Communication Engineering
Sapthagiri College of Engineering
Bengaluru - 560057


Signature of the Principal
Sapthagiri College of Engineering
Dr. N.E. Shivabasappa

Principal

SCE, Bengaluru

External Viva

Name of the Examiners

1. P. Agalga

2. C. Raveeswamy



Signature with Date





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



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057
Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "FACE RECOGNITION BASED ATTENDANCE SYSTEM" carried out by Mr. Akhil Singh (ISG15EC007), Mr. Himanshu Tiwari (ISG15EC041), Mr. Kiran R (ISG15EC047), Mr. Lingaraju L (ISG15EC054) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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

Prof. Shobha S

Associate Professor

Dept. of ECE, SCE

Signature of the HOD

Dr. H C Sateesh Kumar

Head Professor and HOD
Dept. of ECE, SCE
Sapthagiri College of Engineering
Bengaluru- 560 057

External Viva

Signature of the Principal

Dr. K L Shivabasappa

Principal

SCE, Bengaluru

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

Name of the Examiners

1. P. Agalga

2. C. Rajaswamy

Signature with date

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



SAPTHAGIRI COLLEGE OF ENGINEERING

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

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled "AGRICULTURAL FIELD MONITORING USING QUADCOPTER". carried out by Ms. Bhoomika J (ISG15EC020), Ms. Kannika Hegde (ISG15EC044), Ms. Koushalya D (ISG15EC051), bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-19. 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

Prof. Ravi Shankara M N

Head of the Department
Signature of the HOD
Electronics & Communication

Dr. H. C. Sateesh Kumar
Sapthagiri College of Engineering
Bangalore - 560 057

Signature of the Principal
Principal

Dr. K. L. Shivabasappa
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore - 560 057

External Viva

Name of the examiners:

P. Anil Kumar

Signature with date:

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



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled “ANTI-THEFT VEHICLE TRACKING SYSTEM USING GSM AND GPS” carried out by Mr. SAI SIDDHARTH M. (ISG15EC091), Mr. NIKHIL R.A. (ISG15EC067), Mr. RAVI C. (ISG15EC090) and Mr. PRAJWAL K. (ISG15EC076), bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belgavi during the year 2018-19. 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
Prof. Prathibha P.
Assistant Professor
Dept. of ECE

Signature of the HOD
Dr. H. C. Sateesh Kumar
Professor & HOD
Dept. of ECE

Principal
Signature of the Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore-560 057
SCE, Bengaluru

External Viva

Name of the examiners

D A L

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

Signature with date



SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project work entitled **“IoT BASED SMART LIBRARY MANAGEMENT SYSTEM”** carried out by Ms. Ranjitha R (ISG13EC088), Ms. Prema K S (ISG15EC082), Ms. Pooja J (ISG16EC415), Ms. Ramya T K (ISG16EC421) bonafide students of 8th Semester Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering** in Sapthagiri College of Engineering of the Visvesvaraya Technological University, Belgavi during the year 2018-19. 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.

..... 11.06.19

Signature of the Guide
Prof. Sangeeta K Siri
Assistant Professor
Dept. of ECE

..... 11/6/2019

Signature of the HOD
Dr. H. C. Sateesh Kumar
Professor & HOD
Dept. of ECE

..... 11/06

Signature of the Principal
Dr. K. L. Shivabasappa
Principal
SCE, Bengaluru

Name of the examiners

1. S. Shobha
2. C. Rangabany

External Viva

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

Signature with date

..... 17/6/19