



SAPTHAGIRI COLLEGE OF ENGINEERING

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MINI PROJECT BATCH LIST -Section A

BATCH NO	USN	STUDENT NAME	MINI PROJECT TITLE	GUIDE
1	1SG20EC049	Karan S	Air quality Monitoring system	PROF.KALAVATHI
	1SG20EC016	Bhoomika k		
	1SG20EC044	Harshitha N		
	1SG20EC034	Gauthami N		
2	1SG20EC006	Aishwarya K	Food Quality Detection and Monitoring System	PROF.PADMAVATHI C.
	1SG20EC008	Amrutha R		
	1SG20EC024	Deeksha V		
	1SG20EC036	Hafsa tabasum		
3	1SG20EC004	Abhilash Renu M Y	FM Transmitter	DR.PRAKASH JADHAV
	1SG20EC005	Abhinav A		
	1SG20EC023	Darshan R		
	1SG20EC041	Harshith R		
4	1SG20EC002	AbhijithKumar Maji	HCI Based Controller for Multimedia Applications	PROF.AGALYA
	1SG20EC010	Anusha C		
	1SG20EC055	Lekhan Gowda R		
	1SG20EC056	Likith Kumar TS		
5	1SG20EC020	Chandana. S	Automated Water Pumping System Control using ESP 32 Microcontroller	DR.A M .NAGARAJA
	1SG20EC029	Dharmiga. C		
	1SG20EC048	K Ayesha banu		
	1SG20EC053	Lakshmishree C		
6	1SG20EC038	Harsha Vardhan NH	Live subtitle glasses for deaf individuals	DR.SHOBHA H
	1SG20EC035	Gowtham BP		
	1SG20EC042	Harshitha K M		
	1SG20EC039	Harshala B		
7	1SG20EC026	Deepashree R S	Bluetooth based home automation system	PROF.SHOBHA S.
	1SG20EC027	Deepika M		
	1SG20EC028	Dharani K H		
	1SG20EC051	Keerthana R		
8	1SG21EC405	Shivakumar Y	Drowsiness Detection and Alerting system	PROF.RANJITHA
	1SG21EC406	Suman RAJ B		
	1SG21EC401	Lavanya T V		
	1SG21EC400	Arathi B V		
9	1SG20EC031	Gagana YB	Multisim Based Digital Clock Design	PROF.RANJITHA
	1SG20EC032	Ganashree L		
	1SG20EC050	Kavya NK		
	1SG20EC057	Likhitha S		
10	1SG20EC047	Jeevitha C	potato leaf disease detection using machine learning	PROF.SUMA V.SHETTY
	1SG20EC043	Harshitha M		
	1SG20EC054	Laxmi S Sajjan		
	1SG20EC013	Arpitha MV		

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11	1SG20EC014	Ashika A Sholapur	Arduino color sorter using TCS3200 Sensor	PROF.RAVISHANKARA M
	1SG20EC015	BR Chaitra		
	1SG20EC045	Harshitha S		
12	1SG20EC017	Chandan B N	Bank Locking System	PROF.PRATHIBHA
	1SG20EC021	Chetan Suresh Yatnal		
	1SG20EC022	Chethan Sanker T		
	1SG20EC033	Ganesh AN		
13	1SG20EC011	Anusha.L	Alcohol Sensing Alert with Engine Lock System	PROF.VEENA
	1SG20EC001	Aashitha C G		
	1SG20EC012	Apoorva S		
	1SG20EC030	Dhruvitha L		
	1SG20EC007	Akshatha R	IOT Based Health Monitoring using ESP8266 and Arduino	PROF. MANASA M G
	1SG20EC019	Chandhana K		
	1SG20EC049	Keerthana S		
15	1SG20EC025	Deepak RM	GSM Based Home Security System	PROF.KALAVATHI S
	1SG20EC037	Hariprasad N		
	1SG20EC058	Likith R		
	1SG20EC060	Hemanth Reddy		
16	1SG20EC003	Abhilash G	Arduino Based Fire fighting robot	DR.A M .NAGARAJA
	1SG20EC018	Chandan R		
	1SG20EC046	Jeevan J		
	1SG20EC059	Lokesh H A		
17	1sg21ec407	Vinay D.S	Diy-smartphone oscilloscope using raspberry pi pico	DR.H.C. SATEESH KUMAR
	1sg21ec403	Rakshitha R		
	1sg21ec404	Rakshitha R		
	1sg21ec402	Manu N Raj		


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Main Road, Bengaluru-560057, Karnataka, India.

MINI PROJECT BATCH LIST -Section B

BATCH	USN	STUDENT NAME	MINI PROJECT TITLE	Guide
1	1SG20EC088	Sahana C	Voice Controlled Robot	PROF.KALAVATHI
	1SG20EC091	Sampath Kumar S		
	1SG20EC093	Sankeerna C		
	1SG20EC099	Sridevi M		
2	1SG20EC084	Rakshitha.A	RFID Based Smart Trolley	PROF.PADMAVATHI C.
	1SG20EC089	Sahana .M		
	1SG20EC102	Sujana.H.A		
	1SG20EC122	Zaiba Khanum .G .J		
3	1SG20EC117	Veeresh H	Wireless Heartrate Monitoring System	DR..PRAKASH JADHAV
	1SG20EC116	Varun Teja M		
	1SG20EC119	Vishal Kumar		
	1SG20EC085	Rashi Gupta		
4	1SG20ECO62	Mamatha.S	Plant Leaf Disease Detection	PROF.AGALYA
	1SG20EC86	Rohini DK		
	1SG20EC096	Shivani R		
	1SG20EC111	Ume Haney S Oleka		
5	1SG20EC081	Praveen J K	Data transfer from PC to PC based on LI-FI communication using Arduino	DR.H.C. SATEESH KUMAR
	1SG20EC087	S Suhas		
	1SG20EC114	Varun C		
	1SG20EC115	Varun N V		
6	1SG20EC100	Srinidhi JR	Face recognition using python	DR.SHOBHA H
	1SG20EC110	Tharun Kumar UB		
	1SG20EC121	Yuvraj S		
	1SG20EC120	Vishnu Vaibhav S		
7	1SG20EC064	Manjunath M H	Driver Drowsiness Detection using	PROF.SHOBHA S.
	1SG20EC065	Manoj G S		
	1SG20EC094	Shashank BJ		
	1SG20EC108	Rudresh		
8	1SG20EC079	Prajwal HT	Character Recognition Using OCR	PROF VINUTHA
	1SG20EC078	Prajwal G H		
	1SG20EC070	Mohan Kumar CR		
	1SG20EC083	Rajesh H S		
9	1SG20EC071	Nandashree V	Foot Step Power Generation Using piezo Electric Sensor	PROF.RANJITHA
	1SG20EC082	Prerana C. K		
	1SG20EC109	Tejashwini. B		
	1SG20EC105	Supritha M		
	1SG20EC113	Varshitha M		

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10	1SG20EC069	Misba mohamadi	Smart Glove for Sign language Translation using Arduino	PROF.SUMA V.SHETTY
	1SG20EC067	Megha R B		
	1SG19EC068	Priya		
11	1SG20EC101	Suhas K M	Digital Contactless Tachometer	PROF.RAVISHANKARA M.
	1SG20EC077	Prajwal G		
	1SG20EC066	Manoj Yadav K		
12	1SG20EC118	Vinod C	Prepaid Smart Energy Meter Using Arduino And GSM900A MODULE	PROF.PRATHIBHA
	1SG20EC103	Sujay B K		
	1SG20EC063	Manikanth Gaddad		
	1SG20EC075	Payal Yati		
13	1SG20EC080	Pravallika B K	Arduino Based Smart Car Parking System	PROF.PRATHIBHA
	1SG20EC098	Sinchana B		
	1SG20EC106	Swathi P		
	1SG20EC112	V Sumanth		
14	1SG20EC072	Naveen.L.N	Multi Functional Blind Stick For Visually impaired people.	PROF.MANASA
	1SG20EC073	Nikilesh.k.G		
	1SG20EC074	Pavan G		
	1SG20EC104	Suprith		
15	1SG20EC090	Sahana P	Wireless Power Transmission in EV with Smart Parking System	DR..PRAKASH JADHAV
	1SG20EC061	M S Vibha		
	1SG20EC107	Swayam Sethi		
	1SG20EC097	Shree Krishna Vaad		


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14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karnataka, India.



CERTIFICATE

Certified that the project work entitled **AIR QUALITY MONITORING SYSTEM**
 carried out by

1. Bhoomika K [1SG20EC016]

2 Gauthami N [1SG20EC034]

3. Harshitha N [1SG20EC044]

4. Karan S [1SG20EC049]

Are bona fide students of **Sapthagiri College of Engineering Bengaluru**, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of miniproject work prescribed for the said degree.

Kalavathi S.

Kalavathi S

Assistant Professor

B

Dr. H Ramakrishna

Principal

Dr. H C Sateesh Kumar

Dr. H C Sateesh Kumar

Head of the Department

External Viva

Name of the examiners:

1.....

2. Dr. Sreena M. K

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

Signature with date:

.....

.....

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14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karnataka, India.



CERTIFICATE

Certified that the project work entitled **FOOD QUALITY DETECTION AND MONITORING SYSTEM** carried out by

- | | |
|----------------------------------|-------------------------------------|
| 1. Miss Aishwarya K [ISG20EC006] | 2. Miss Amrutha R [ISG20EC008] |
| 3. Miss Deeksha V [ISG20EC024] | 4. Miss Hafsa Tabassum [ISG20EC036] |

are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

Prof. Padmavathi C
Assistant Professor

Dr. H Ramakrishna
Principal

Dr. H C Sateesh Kumar
Head of the Department
Electronics & Communication
Sapthagiri College of Engineering
Bangalore - 560 057

External Viva

Name of the examiners:

1. Dr. H C Sateesh Kumar
2. Dr. Sapna M. K

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

Signature with date:

20/7

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CERTIFICATE

Certified that the project work entitled **"FM Transmitter"** is carried out by

Abhinav A [1SG20EC005]

Abhilash Renu MY [1SG20EC004]

Darshan R [1SG20EC023]

Harshith R [1SG20EC041]

Are Bonafede students of **Sapthagiri College of Engineering Bengaluru**, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

Dr. Prakash Jadhav
Assistant Professor

Dr. H Ramakrishna
Principal

Dr. H C Sateesh Kumar
Head of the Department
Sapthagiri College of Engineering
Bengaluru - 560 057

External Viva

Name of the examiners:

1. Dr H C Sateesh Kumar
2. Dr. Sagna. M.K

Signature with date:

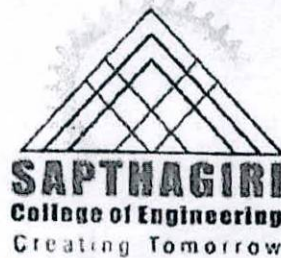
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CERTIFICATE

Certified that the project work entitled "**HCI BASED CONTROLLER FOR MULTIMEDIA APPLICATIONS**" carried out by

- | | |
|-------------------------------------|----------------------------------|
| 1. Abhijith Kumar Maji [1SG20EC002] | 2. Anusha C [1SG20EC010] |
| 3. Lekhan Gowda R [1SG20EC055] | 4. Likith Kumar T S [1SG20EC056] |

are bonafide students of **Sapthagiri College of Engineering Bengaluru**, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of miniproject work prescribed for the said degree.

Prof. Agalya P
Associate Professor

Dr. H C Sateesh Kumar
Head of the Department

Dr. H Ramakrishna
Principal

External Viva

Name of the examiners:

- Dr. H C Sateesh Kumar
- Dr. Sapna M. K.

Signature with date:

Principal
 Sapthagiri College of Engineering
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CERTIFICATE

#####

Certified that the project work entitled Multimedia Control for PC carried out by

- | | |
|------------------------------------|-------------------------------------|
| 1. Miss Chandana.S [1SG20EC020] | 2. Miss Dharmiga.C [1SG20EC029] |
| 3. Miss K.Ayesha banu [1SG20EC048] | 4. Miss Lakshmishree.C [1SG20EC053] |

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester Bachelor of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of miniproject work prescribed for the said degree.

Name & signature
of the Guide

Dr. H C Sateesh Kumar
Head of the Department

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

Dr. H Ramakrishna
Principal

External Viva

Name of the examiners:

1. Dr. H C Sateesh Kumar

Signature with date:

20/7/2022

2. Dr. Sagna. M. K.

Principal
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14/5, Chikkasandra, Hesaraghatta Main Road
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20/7/2022

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**CERTIFICATE**

Certified that the Mini project work entitled **Live Subtitle Glasses for deaf individuals** carried out by

1. GOWTHAM B P [1SG20EC035] 2. HARSHA VARDHAN NH [1SG20EC038]

3. HARSHALA B [1SG20EC039] 4. HARSHITHA K M [1SG20EC042]

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Dr. Shobha Hugar
Associate professor

Dr. H Ramakrishna
Principal

Dr. H C Sateesh Kumar
Head of the Department

Head of the Department
Electronics & Communication
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Bengaluru - 560 057

External Viva

Name of the examiners:

1. Dr. H C Sateesh Kumar
2. Dr. Sagnika M. K

Signature with date:

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CERTIFICATE

Certified that the project work entitled "**BLUETOOTH BASED HOME AUTOMATION USING ARDUINO**" carried out by

1. Deepashree R S [ISG20EC026]

2. Deepika M [ISG20EC027]

3. Dharani K H [ISG20EC028]

4. Keerthana R [ISG20EC051]

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester Bachelor of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

Prof. Shobha S
project Guide

Dr. H Ramakrishna
Principal

Dr. H C Sateesh Kumar
Head of the Department

External Viva

Name of the examiners:

1. Dr H C Sateesh Kumar

2. Dr. Sateesh M. K.

Signature with date:

20/7/23

20/7/23

Principal

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CERTIFICATE

Certified that the project work entitled Multimedia Control for PC carried out by

- | | |
|----------------------------------|----------------------------------|
| 1. Miss Arathi B V [1SG21EC400] | 2. Miss Lavanya T V [1SG21EC401] |
| 3. Mr. Shivakumar Y [1SG21EC405] | 4. Mr. Suman Raj B [1SG21EC406] |

are bonafide students of **Sapthagiri College of Engineering Bengaluru**, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

Kalavathi S.

Name & signature
the Guide

Dr. H Ramakrishna
Principal

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

External Viva

Name of the examiners:

Signature with date:

1. Dr H C Sateesh Kumar

20/7/23

2. _____

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**CERTIFICATE**

Certified that the project work entitled **Multisim-Based Digital Clock Design** carried out by

1. Miss. Gagana Y B [1SG20EC031]

2. Miss. Ganashree L [1SG20EC032]

3. Miss. Kavya N K [1SG20EC050]

4. Miss. Likhitha S [1SG20EC057]

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Name & signature
of the Guide

Dr. H C Sateesh Kumar
Head of the Department

Dr. H Ramakrishna
Principal

External Viva

Name of the examiners:

1. Dr H C Sateesh Kumar

2. Dr. Sapna M.K

Signature with date:

20/7/23

20/7/23

Principal
Sapthagiri College of Engineering
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CERTIFICATE

Certified that the project work entitled Potato leaf disease detection using CNN carried out by

1. Miss Harshitha M [1SG20EC043]
2. Miss Jeevitha C [1SG20EC047]
3. Miss Laxmi S Sajjan[1SG20EC054]

are bonafide students of **Sapthagiri College of Engineering Bengaluru**, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

Sum v Shetty

Prof. Suma V Shetty
 Signature of the Guide

[Signature]

Dr. H C Sateesh Kumar
 Head of the Department

[Signature]

Dr. H Ramakrishna
 Principal

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

External Viva

Name of the examiners:

Signature with date:

1. *Dr. H C Sateesh Kumar*

[Signature] 21/7/23

2. *Dr. Sateesh Kumar*

[Signature] 21/7/23

B11

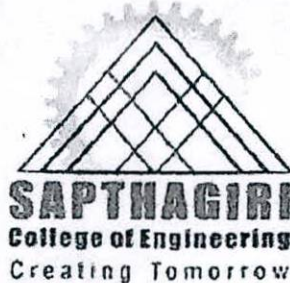
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CERTIFICATE

Certified that the project work entitled **ARDUINO COLOR SORTER USING TCS3200 SENSOR** carried out by

1. Arpitha M V [1SG20EC013]

3. B R Chaitra [1SG20EC015]

2. Ashika A Sholapur [1SG20EC014]

4. Harshitha S [1SG20EC045]

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Prof. Ravishankara M N
Assistant Professor

Dr. H Ramakrishna
Principal

Dr. H C Sateesh Kumar
Head of the Department

Head of the Department
Electronics & Communication
Sapthagiri College of Engineering
Bangalore - 560 057.

External Viva

Name of the examiners

Dr. H C Sateesh Kumar

Dr. Sateesh Kumar

Signature with date: 1.

2. 21/7/23

Principal

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Bengaluru - 560 057

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CERTIFICATE

#####

Certified that the project work entitled "Bank locking system "

carried out by

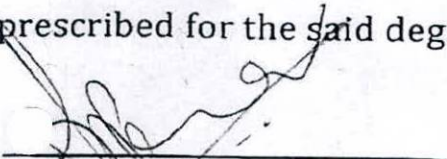
CHETHAN SANKER T [1SG20EC022]


CHANDAN B N [1SG20EC017]

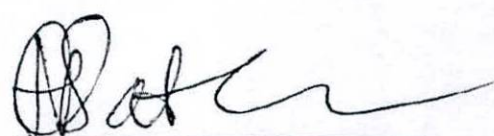
CHETAN SURESH Y [1SG20EC021]

GANESH A N [1SG20EC033]

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of miniproject work prescribed for the said degree.


Prathibha P
Guide


Dr. H Ramakrishna
Principal


Dr. H C Sateesh Kumar
Head of the Department

Head of the Department
Electronics & Communication
Sapthagiri College of Engineering
Bengaluru - 560 057


External Viva


Name of the examiners:

1. Dr. H C Sateesh Kumar

2. Dr. Sangeeta M. K.

Signature with date:

 21/7/23

 21/7/23

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

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CERTIFICATE

Certified that the project work entitled "**ALCOHOL SENSING ALERT WITH ENGINE LOCK SYSTEM**" is carried out by

Anusha L(1SG20EC011)

Apoorva S(1SG20EC012)

Dhruvitha L(1SG20EC030)

Aashitha C G(1SG20EC001)

Is a Bonafede students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester Bachelor of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

Ashwini Gowda H.B

Ashwini Gowda H B
Assistant Professor

Dr. H C Sateesh Kumar

Dr. H C Sateesh Kumar
Head of the Department

Dr. H Ramakrishna

Dr. H Ramakrishna
Principal

External Viva

Name of the examiners:

1. Dr. H. C. Sateesh Kumar
2. Dr. Sagar M. K.

Signature with date:

Dr. H. C. Sateesh Kumar
21/7/23

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru-560057

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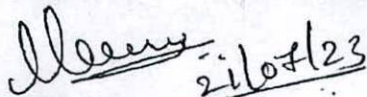
CERTIFICATE

Certified that the project work entitled Multimedia Control for PC carried out by

1. Miss. AKSHATHA R[1SG20EC007] 2. Miss. CHANDANA K[1SG20EC019]

3. Miss. KEERTHANA S[1SG20EC052]

Are bona fide students of **Sapthagiri College of Engineering Bengaluru**, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.


 21/01/23

Prof. Manasa M G

Name & signature
 of the Guide



Dr. H C Sateesh Kumar

Head of the Department

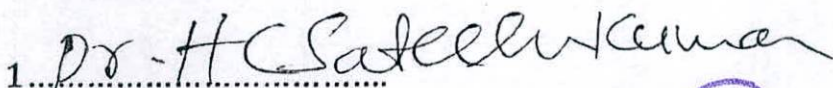


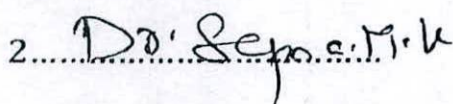
Dr. H Ramakrishna

Principal

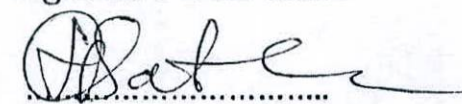
External Viva

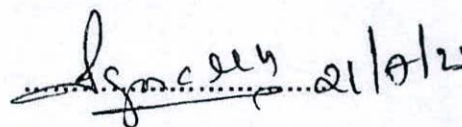
Name of the examiners:

1. 

2. 

Signature with date:



 21/01/23


 Principal
 Sapthagiri College of Engineering
 14/5, Chikkasandra, Hesaraghatta Main Road
 Bengaluru - 560057

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14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karnataka, India.



CERTIFICATE

#####

Certified that the project work entitled **GSM BASED HOME SECURITY SYSTEM** carried out by,

- | | |
|-------------------------------------|-----------------------------------|
| Mr. LIKITH.R [1SG20EC058] | 2. Mr. DEEPAK.R.M [1SG20EC025] |
| 3. Mr. M HEMANTH REDDY [1SG20EC060] | 4. Mr. HARI PRASAD.N [1SG20EC037] |

Are bonafide students of **Sapthagiri College of Engineering Bengaluru**, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of miniproject work prescribed for the said degree.

Kalavathi.S

Name & signature
of the Guide

Dr. H Ramakrishna
Principal

Dr. H C Sateesh Kumar
Head of the Department

External Viva

Name of the examiners:

1. _____

2. Dr. Sagna.M.K

Principal

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

Signature with date:

Sagna.M.K
21/7/23

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14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057, Karnataka, India.



CERTIFICATE

Certified that the project work entitled **Arduino based Firefighting Robot with SMS and Call** carried out by

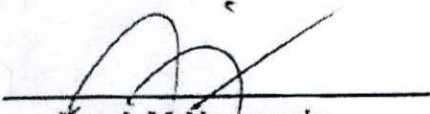
1. Abhilash G [1SG20EC003]


2. Chandan R [1SG20EC018]

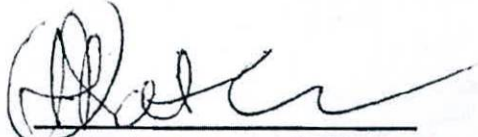
3. Jeevan J [1SG20EC046]

4. Lokesh H A [1SG20EC059]

Are bonafide students of Sapthagiri College of Engineering, Bengaluru in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of Mini project work prescribed for the said degree.


Dr. A M Nagaraja
Professor


Dr. H Ramakrishna
Principal


Dr. H C Sateesh Kumar
Head of the Department

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

External Viva

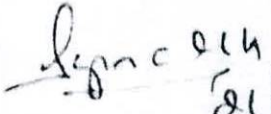
Name of the examiners:

1.

2. Dr. Sagar M. V.


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

Signature with date:


21/11/23

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14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karnataka, India.



CERTIFICATE

Certified that the project work entitled **Diy smartphone oscilloscope using raspberry pi pico** carried out by

1. Manu N Raj [1SG21EC402]

2. Rakshitha R[1SG21EC403]

3. Rakshitha R[1SG21EC404]

4. Vinay D S [1SG21EC407]

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2019-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of miniproject work prescribed for the said degree.

Dr. H C Sateesh Kumar
Head of the Department

Dr. H C Sateesh Kumar
Head of the Department

Dr. H Ramakrishna
Principal


External Viva

Name of the examiners:

Signature with date:

1.

2.


Principal
Sapthagiri College of Engineering
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14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karnataka, India.



CERTIFICATE

Certified that the Mini project work entitled "Voice Controlled Robot" carried out by

Sahana C [1SG20EC088]

2. Sampath Kumar S [1SG20EC091]

3. Sankeerna C [1SG20EC093]

4. Sridevi M [1SG20EC099]

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2020-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of Mini project work prescribed for the said degree.

Kalavathi S.

Prof. Kalavathi S
Guide

Dr. H Ramakrishna
Principal

Dr. H C Sateesh Kumar
Head of the Department
Electronics & Communication
Sapthagiri College of Engineering
Bangalore - 560 057

External Viva

Name of the examiners:

1. RAVI SHANKARA M.N

2. Shilpa. chippalakatti

Signature with date:

20/7/23

20/7/23

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
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CERTIFICATE

Certified that the Mini project work entitled "RFID BASED SMART TROLLEY" carried out by

Rishitha A [1SG20EC084]

Sahana M [1SG20EC089]

Sujana H A [1SG20EC102]

Zaiba Khanum G N [1SG20EC122]

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2020-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of Mini project work prescribed for the said degree.

Prof. Padmavathi C
Guide

Dr. H Ramakrishna
Principal

Dr. H C Sateesh Kumar
Tech Head of the Department
Sapthagiri College of Engineering
Bengaluru - 560 057.

External Viva

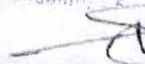
Name of the examiners:

1. RAVISHANKARA MN

2. Shilpa Chippalakatti


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

Signature with date:

 20/7/23

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CERTIFICATE

#####

Certified that the project work entitled Heart Rate Monitoring System using Arduino carried out by

- | | |
|--------------------------------|--------------------------------|
| 1. Miss Rashi Gupta 1SG20EC085 | 2. Mr. Varun Teja M 1SG20EC116 |
| 3. Mr. Veeresh H 1SG20EC117 | 4. Mr. Vishal Kumar 1SG20EC119 |

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

Dr. Prakash Jadhav
Guide

Dr. H. Ramakrishna
Principal

Dr. H C Sateesh Kumar
Head of the Department

External Viva

Name of the examiners:

1. RAVI SHANKARA. MIN
2. Shilpa. Chippalokatti

Signature with date:

20/7/23
20/7/23

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

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CERTIFICATE

Certified that the project work entitled "Plant Leaf Disease Detection" carried out by


1. Mamatha S [1SG20EC062]


2. Rohini D K [1SG20EC086]

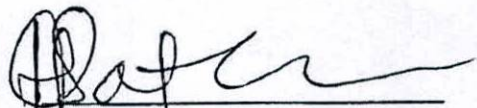
3. Shivani R [1SG20EC096]

4. Ume Haney S Olekar [1SG20EC111]

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Prof. Agalya P
Associate Professor


Dr. H Ramakrishna
Principal

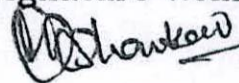

Dr. H C Sateesh Kumar
Head of the Department
Head of the Department
Electronics & Communication
Sapthagiri College of Engineering
Bengaluru - 560 057

External Viva

Name of the examiners:

1. RAVI SHANKARA M N

Signature with date:

 20/7/23

2. Shilpa Chippalakatti


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

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CERTIFICATE

Certified that the project work entitled "Data transfer based on LI-FI communication"
carried out by

1. Praveen J K [ISG20EC081]
3. Varun C [ISG20EC114]

2. S Suhas [ISG20EC087]
4. Varun N V [ISG20EC115]

Are bonafide students of **Sapthagiri College of Engineering Bengaluru**, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2020-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report and the mini project report has been approved as it satisfies the academic requirements in respect of Mini project work prescribed for the said degree.

Dr. H C Sateesh Kumar

Signature of the Guide and HOD

Dr. H Ramakrishna
Principal

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta, Bengaluru-560057

External Viva

Name of the examiners:

Signature with date:

1. RAVI SHANKARA. M.N

2. Shilpa. chippalakatti

20/7/23

20/7/23

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CERTIFICATE

#####

This is to certify that the project work entitled "Face Recognition Using Python" carried out by

1. THARUN KUMAR U B [1SG20EC110]

2. VISHNU VAIBHAV S [1SG20EC120]

3. YUVARAJ S [1SG20EC121]

4. SRINIDHI J R [1SG20EC100]

Are bona fide students of Sapthagiri College of Engineering Bengaluru, in partial fulfilment for the award of degree of 6th semester Bachelor of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belagavi during the year 2020-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of miniproject work prescribed for the said degree.

Dr. Shobha Hugar

Assoc. Professor

Dr. H Ramakrishna

Principal

Dr. H C Sateesh Kumar

Head of the Department

External Viva

Name of the examiners:

1. RAVI SHANKARA M.N

2. Shilpa. chippalakatti

Signature with date:

Principal

Sapthagiri College of Engineering
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CERTIFICATE

Certified that the Mini project work entitled "Driver Drowsiness Detection using python" carried out by

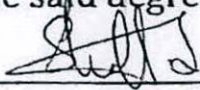
1. Manjunath M H [1SG20EC064]

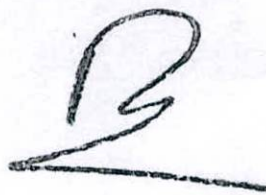
2. Manoj G S [1SG20EC065]

3. Shashank B J [1SG20EC094]

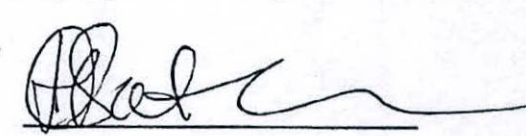
4. T Rudresh [1SG20EC108]

Are bonafide students of **Sapthagiri College of Engineering Bengaluru**, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belagavi during the year 2020-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of Mini project work prescribed for the said degree.


Prof. Shobha S
Guide



Dr. H Ramakrishna
Principal


Dr. H C Sateesh Kumar
Head of the Department

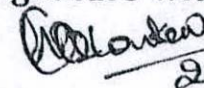
External Viva


Name of the examiners:


1. RAVI SHANKARA M N

2. Shilpa. chippalakatti

Signature with date:


20/7/23


20/7/23


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

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14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karnataka, India.



Certificate

Whereas that the project work entitled "Character Recognition Using OCR" carried out by

1. Mohan Kumar C R [ISG20EC070]

2. Prajwal H T [ISG20EC079]

3. Prajwal G H [ISG20EC078]

4. Rajesh H S [ISG20EC083]

are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester Bachelor of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

I. Lavathi S.
Name & signature
of the Guide

Dr. H Ramakrishna
Principal

Dr. H C Sateesh Kumar
Head of the Department

Head of the Department
Electronics & Communication
Sapthagiri College of Engineering
Bengaluru - 560 057

Internal Examination
Name of the examiners:

RAVI SHANKARA. M.N

Shruthi Chippalakatti

Signature with date:

20/7/23

20/7/23

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

A9

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi, and Recognized by AICTE, New Delhi) (Accredited by NAAC with "A" Grade), (Accredited by NBA)

(ISO 9001-2015 and 14001-2015 Certified Institute)

14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karnataka, India.



CERTIFICATE

#####

Certified that the project work entitled **FOOTSTEP POWER GENERATION USING PIEZOELECTRIC SENSOR** carried out by

1. Miss Nandashree.V [1SG20EC071]

2. Miss Prerana C.K [1SG20EC082]

3. Miss Supriya.M [1SG20EC105]

4. Miss Tejaswini.B [1SG20EC109]

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6th semester **Bachelor of Engineering in Electronics & Communication Engineering** of Vishveshwarya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report and the project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

Prof. Ranjitha.R

Project Guide

Dr. H Ramakrishna

Principal

Dr. H C Sateesh kumar

Head of the Department

External Viva

Name of the examiners:

1. RAVI SHANKARA. M.N

2. Shilpa. chippalakatti

Signature with date:

Principal

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

Ar

Sri Srinivasa Educational and Charitable Trust⁰⁰
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14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karnataka, India.



CERTIFICATE

Certified that the project work entitled "**SMART GLOVE FOR SIGN LANGUAGE**

TRANSLATION USING ARDUINO" carried out by

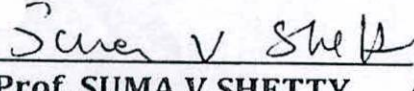
PRIYA [ISG19EC067]

MEGHA R B [ISG20EC067]

MISBA MOHAMADI [ISG20EC069]

VARSHITHA M [ISG20EC113]

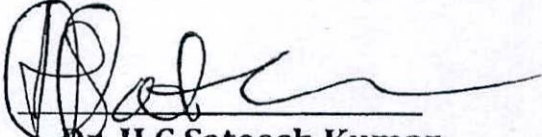
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Prof. SUMA V. SHETTY

Assistant Professor



Dr. H. Ramakrishna
Principal



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

External Viva


Name of the examiners:


1. RAVI SHANKARA. M. N.

2. Shilpa. Chippalakathi


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

Signature with date:


21/7/23


21/7/23

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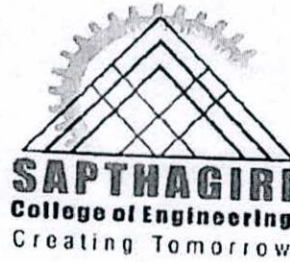
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14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karnataka, India.



CERTIFICATE

Certified that the project work entitled **Digital Contactless Tachometer** carried out by

1. Mr. Manoj Yadav [1SG20EC066]

2. Mr. Prajwal G [1SG20EC077]

3. Mr. Suhas K M [1SG20EC101]

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Ravi Shankara M N
Associate Professor

Dr. H C Sateesh Kumar
Head of the Department

Dr. H Ramakrishna
Principal

Head of the Department
Electronics & Communication
Sapthagiri College of Engineering
Bengaluru - 560 057

External Viva

Name of the examiners:

1. **RAVI SHANKARA M N**

2. **Shilpa Chippalakatti**

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

Signature with date:

21/7/23

21/7/23

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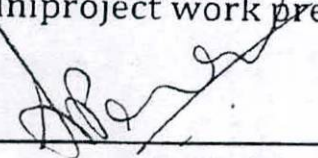


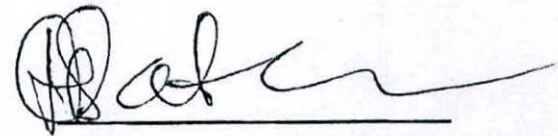
CERTIFICATE


Certified that the project work entitled "**Prepaid smart energy meter using arduino and GSM-900A module**" carried out by

- | | |
|----------------------------|---------------------------|
| 1. Manikanth M -1SG20EC063 | 2. Payal yati -1SG20EC075 |
| 3. Sujay B K -1SG20EC103 | 4. Vinod C -1SG20EC118 |

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Mrs. Prathibha P
Assistant professor


Dr. H C Sateesh Kumar
Head of the Department


Dr. H Ramakrishna
Principal

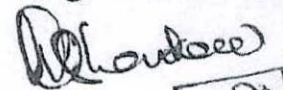
External Viva


Name of the examiners:


1. RAVI SHANKARA. MIN

2. Shilpa. Chippalakatti

Signature with date:


21/7/23


21/7/23


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

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14/5, Chikkasandra, Bengaluru-560057, Karnataka, India.

**CERTIFICATE**

Certified that the Mini project work entitled Arduino based smart car parking system carried out by

1. PRAVALLIKA B K [1SG20EC080]

2. SINCHANA B [1SG20EC098]

3. SWATHI P [1SG20EC106]

4. V SUMANTH [1SG20EC112]

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Dr. Shobha Hugar

Associate professor

Dr. H Ramakrishna

Principal

Dr. H C Sateesh Kumar

Head of the Department

External Viva

Name of the examiners:

1. RAVI SHANKARA. MIN

2. Shilpa. Chippalakath

Principal

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

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21/7/23

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CERTIFICATE

#####

Certified that the project work entitled Multi Functional Blind Stick carried out by

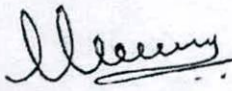
1 Naveen.L.N -1SG20EC072

2. Nikilesh.K.G-1SG20EC073

3.Pavan.G-1SG20EC074

4. Suprith-1SG20EC0104

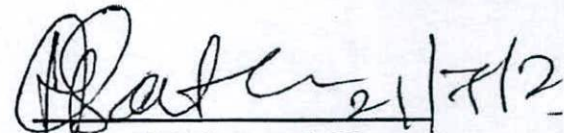
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 21/07/23

Prof. Manasa M G
Project Guide



Dr. H Ramakrishna
Principal

 21/7/23

Dr. H C Sateesh Kumar
Head of the Department

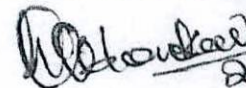
External Viva

Name of the examiners:

1. RAVI SHANKARA. M.N

2. Shilpa. Chippalakathi


Signature with date:

 21/7/23



Principal

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CERTIFICATE

Certified that the project work entitled **Wireless Power Transmission in EV with Smart Parking System using IOT** carried out by

M S Vibha [1SG20EC061]

2. Sahana P [1SG20EC090]

3. Vaachaspathy [1SG20EC097]

4. Swayam Sethi [1SG20EC107]

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Dr. Prakash Jadhav

Associate Professor

Dr. H Ramakrishna

Principal

Dr. H C Sateesh Kumar

Head of the Department

External Viva

Name of the examiners:

1. RAVI SHANKARA M.NC

2. Shilpa Chippalakathi

Principal

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

Signature with date:

21/11/23