

SAPTHAGIRI COLLEGE OF ENGINEERING

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Road, Bengaluru-560057, Karnataka, India.

BATCH NO		STUDENT NAME	MINI PROJECT TITLE	GUIDE
	1SG20EC049	Karan S		
1	1SG20EC049	Bhoomika k	Air quality Monitoring	
	1SG20EC044	Harshitha N	system	PROF.KALAVATHI
	1SG20EC034	Gauthami N		
	1SG20EC006	Aishwarya K	Food Quality Detection and Monitoring System	PROF.PADMAVATHI C
	1SG20EC008	Amrutha R		
2	1SG20EC024	Deeksha V		
	1SG20EC036	Hafsa tabasum		
	1SG20EC004	Abhilash Renu M Y		
-	1SG20EC005	Abhinav A		DR.PRAKASH JADHAV
3	1SG20EC023	Darshan R	FM Transmitter	
	1SG20EC041	Harshith R	1	
No.	1SG20EC002	AbhijithKumar Maji	HCI Based Controller for Multimedia Applications	PROF.AGALYA
4	1SG20EC010	Anusha C		
4	1SG20EC055	Lekhan Gowda R		
	1SG20EC056	Likith Kumar TS		
	1SG20EC020	Chandana. S	Automated Water Pumping System Control using ESP 32 Microcontroller	DR.A M .NAGARAJA
5	1SG20EC029	Dharmiga. C		
5	1SG20EC048	K Ayesha banu		
	1SG20EC053	Lakshmishree C		
	1SG20EC038	Harsha Vardhan NH	Live subtitle glasses for deaf individuals	DR.SHOBHA H
6	1SG20EC035	Gowtham BP		
0	1SG20EC042	Harshitha K M		
and I	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		and the second
5 - 2 - G	1SG21EC405	Shivakumar Y	Drowsiness Detection and	
8	1SG21EC406	Suman RAJ B		PROF.RANJITHA
0	1SG21EC401	Lavanya T V	Alerting system	I NOF NANJI I NA
C. L.	1SG21EC400	Arathi B V		
	1SG20EC031	Gagana YB	Multisim Based Digital Clock Design	PROF.RANJITHA
9	1SG20EC032	Ganashree L		
9	1SG20EC050	Kavya NK		I KOF KANJI I HA
	1SG20EC057	Likhitha S		
	1SG20EC047	Jeevitha C	potato leaf disease detection using machine learning	
10	1SG20EC043	Harshitha M		PROF.SUMA V.SHETTY
S	1SG20EC054	Laxmi S Sajjan	using machine learning	
	1SG20EC013	Arpitha MV		16

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11	1SG20EC014	Ashika A Sholapur	Arduino color sorter using	PROF.RAVISHANKARA
11	1SG20EC015	BR Chaitra	TCS3200 Sensor	
	1SG20EC045	Harshitha S	and the second second	tions
12	1SG20EC017	Chandan B N		PROF.PRATHIBHA
	1SG20EC021	Chetan Suresh Yatnal	Bank Locking System	
12	1SG20EC022	Chethan Sanker T		
100	1SG20EC033	Ganesh AN	and the state	
	1SG20EC011	Anusha.L	-	PROF.VEENA
13	1SG20EC001	Aashitha C G	Alcohol Sensing Alert with	
15	1SG20EC012	Apoorva S	Engine Lock System	
1	1SG20EC030	Dhruvitha L		
	1SG20EC007	Akshatha R	IOT Based Health	
	1SG20EC019	Chandhana K	Monitoring using ESP8266 and Arduino	PROF. MANASA M G
	1SG20EC049	Keerthana S		
	1SG20EC025	Deepak RM	GSM Based Home Security System	PROF.KALAVATHI.S
15	1SG20EC037	Hariprasad N		
15	1SG20EC058	Likith R		
	1SG20EC060	Hemanth Reddy		
	1SG20EC003	Abhilash G	Arduino Based Fire fighting robot	DR.A M .NAGARAJA
16	1SG20EC018	Chandan R		
10	1SG20EC046	Jeevan J		
	1SG20EC059	Lokesh H A		
	1sg21ec407	Vinay D.S	Diy-smartphone	DR.H.C. SATEESH KUMA
17	1sg21ec403	Rakshitha R		
17	1sg21ec404	Rakshitha R	oscilloscope using raspberry pi pico	
	1sg21ec402	Manu N Raj	raspoerty pr pico	

Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 580 057

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24.50		PROJECT	BATCH LIST -See	Suon 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 (
	1SG20EC089	Sahana .M		
	1SG20EC102	Sujana.H.A		
1.56	1SG20EC122	Zaiba Khanum .G .		
	1SG20EC117	Veeresh H		
3	1SG20EC116	Varun Teja M	Wireless Heartrate Monitoring	DRPRAKASH JADHA
5	1SG20EC119	Vishal Kumar	System	
	1SG20EC085	Rashi Gupta		
4	1SG20ECO62	Mamatha.S	Plant Leaf Disease Detection	PROF.AGALYA
	1SG20EC86	Rohini DK		
	1SG20EC096	Shivani R		
	1SG20EC111	Ume Haney S Olek		
-	1SG20EC081	Praveen J K	Data transfer from PC to PC based on LI-FI communication using Arduino	DR.H.C. SATEESH KUMAR
5	1SG20EC087	S Suhas		
5	1SG20EC114	Varun C		
	1SG20EC115	Varun N V	using Ardunio	
	1SG20EC100	Srinidhi JR		DR.SHOBHA H
,	1SG20EC110	Tharun Kumar UB	Face recognition using python	
6	1SG20EC121	Yuvraj S		
	1SG20EC120	Vishnu Vaibhav S		
	1SG20EC064	Manjunath M H	Driver Drowsiness Detection usi	PROF.SHOBHA S.
	1SG20EC065	Manoj G S		
7	1SG20EC094	Shashank BJ		
	1SG20EC108	Rudresh		
223	1SG20EC079	Prajwal HT	Character Recognization Using OCR	PROF VINUTHA
	1SG20EC078	Prajwal G H		
8	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		
Carl State	1SG20EC113	Varshitha M		\cap

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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			
	1SG20EC101	Suhas K M		OF.RAVISHANKARA M	
11	1SG20EC077	Prajwal G	Digital Contactless Tachometer		
	1SG20EC066	Manoj Yadav K			
	1SG20EC118	Vinod C	Prepaid Smart Energy Meter Using Arduino And GSM900A MODULE		
12	1SG20EC103	Sujay B K		PROF.PRATHIBHA	
12	1SG20EC063	Manikanth Gaddad			
	1SG20EC075	Payal Yati	MODOLL		
	1SG20EC080	Pravallika B K	Arduino Based Smart Car Parking System	PROF.PRATHIBHA	
13	1SG20EC098	Sinchana B			
15	1SG20EC106	Swathi P			
	1SG20EC112	V Sumanth			
	1SG20EC072	Naveen.L.N	Multi Functional Blind Stick For Visually impaired people.	PROF.MANASA	
14	1SG20EC073	Nikilesh.k.G			
	1SG20EC074	Pavan G			
Contra A	1SG20EC104	Suprith			
	1SG20EC090	Sahana P	Wireless Power Transmission in EV with Smart Parking System	DRPRAKASH JADHAV	
15	1SG20EC061	M S Vibha			
15	1SG20EC107	Swayam Sethi			
	1SG20EC097	Shree Krishna Vaac			

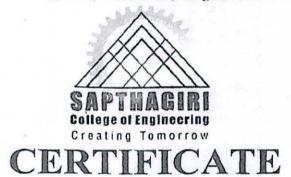
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Certified that the project work entitled AIR QUALITY MONITORING SYSTEM carried out by

1.Bhoomika K [1SG20EC016]

2 Gauthami N[1SG20EC034]

4. Karan S [1SG20EC049]

3.Harshitha N[1SG20EC044]

BI

Are bona ide 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 satis ies the academic requirements in respect of miniproject work prescribed for the said degree.

Kal avrilt Kalavathi

Assistant Professor



Dr. H C Sateesh Kumar Head of the Department

Signature with date:

Dr. H Ramakrishna Principal

External Viva Name of the examiners:

1.....

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Principal

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

1. Miss Aishwarya K	[1SG20EC006]
3. Miss Deeksha V	[1SG20EC024]

B2

2. Miss Amrutha R	[1SG20EC008]
4. Miss Hafsa Tabassum	[1SG20EC036]

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 respectof mini project work prescribed for the said degree.

Prof. Padmavathi C Dr, H C.Sateesh Kumai 11 Assistant Professor Head of the Department Sapthagiri College of Engin Bangalor: -560 057. Dr. H Ramakrishna Principal **External Viva** Name of the examiner Signature with date: Principal otee 1 Dr.HC Sapthagiri College of Engineering p.n.a. 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 560 057

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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 respectof mini project work prescribed for the said degree.

Dr. Prakash Jadhav Assistant Professor

HC Sateesh Kumar

Appliagin College of Engineerin Bangalori 560 057

Dr. H Ramakrishna Principal

External Viva

Name of the examiners: 1. Dr HCSalellin Kuman 2. Dr. Sapac, M.K.

Signature with date:

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 580 057

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

1. AbhijithKumar 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**

H C Sateesh Kumar **Head of the Department**

Dr. H Ramakrishna Principal

External Viva

Name of the examiners: 1. Dr. Hc Satellicum ignature with date: ernagen 2. Dr. Sepna Mik Sapthagiri College of 14/5, Chikkasandra, Hesaraoh

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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]

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Name & signature of the Guide

BS

Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna Principal

Principal

Bangaluru - 58

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- Head of the Department

Declaration & Characterion

External Viva

Name of the examiners: 1. Do HC Satellikuma

3aptha.

Signature with date:

2. Do Scan G. M. Sapthagiri College of Engineering

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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]

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 proscribed for the said degree.

Dr. Shobha Hugar Associate professor



Dr. H C Sateesh Kumar Head of the Department

Head of the Department Electronics & Communication **Bapthagiri College of Engineering** Bangalon -560 057 -

Signature with date:

Dr. H Ramakrishna Principal

> Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main

Bengaluru .

External Viva

Name of the examiners: 1. Dr. HC Soteel Kuman 2. Dr. Sepac. M.K

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

1. eepashree R S [ISG20EC026]

2. Deepika M [1SG20EC027]

3. Dharani K H [1SG20EC028]

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 respectof mini project work prescribed for the said degree.

Prof. Shobha S project Guide

Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna Principal

External Viva

Name of the examiners:

1. Dr. HC Salelukumat 2. Dr. Segne. M.K. D

Principat

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

Signature with date:

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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.

Name & signature the Guide

C Sateesh Kumar of

Head of the Department The tradics & Communication Bangaion 560 057

Dr. H Ramakrishna Principal

External Viva Name of the examiners: 1 Do HC Satel Kuna 2.

Signature with date:

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 580 ost

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ERTIFICATE

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. HC Sateesh Kumar Head of the Department

Dr. H Ramakrishna

Principal

External Viva

Name of the examiners: 2 Dr HC Satellulan 2. Dr. Scpnc, Mik

Signature with date:

Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 580

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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 Shubby

Prof. Suma V Shetty Signature of the Guide

Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna lectronics & Communication Principal Bapthagiri College of Engineering Bongalor 560 057

External Viva

Name of the examiners:

1 Dr-HC Scotell Kuman

2. Dr. Sepac. M.2

Signature with date:

21/7/23 anchi

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghetta Vola Road Bangatura

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Certified that the project work entitled ARDUINO COLOR SORTER USING TCS3200 SE^{*-} COR carried out by

1. Arpitha M V [1SG 3. B R Chaitra [1SG

[1SG20EC013] [1SG20EC015] 2.AshikaASholapur 4. Harshitha S [1SG20EC014] [1SG20EC045]

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 respectof mini project work prescribed for the said degree.

Prof. Ravishankara M N Assistant Professor

-Dr. H-Ramakeishna

Principal

Dr. H C Sateesh Kumar Head of the Department

Head of the Department Electronics & Communicatio Sapthagiri College of Engineerin & Bangalor 560 057.

Signature with date: 1A

Name of the examiners Dr. HC Sastelly Kun

Dr. Sepna. M.L

External Viva

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Certified that the project work entitled "Bank locking system "

carried out by

CHETHAN SANKER T [1SG20EC022] CHETAN SURESH Y [1SG20EC021] CHANDAN B N [1SG20EC017] GANESH A N [1SG20EC033]

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Prathibha P Guide

Dr. H C Sateesh Kumar Head of the Department

Head of the Department Flectronics & Communication Sapth: dir College of Engineering

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Dr. H Ramakrishna Principal

External Viva

Name of the examiners: 1. Dr HCSacleelnKuman

Do. Sepan.K

Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Marri Boya Bengaluru - SBe os 25/6/18

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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 he 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 ertified that all corrections/suggestions indicated have been incorporated in the report and the project eport has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

nunigouda H.B

Ashwini Gowda H B Assistant Professor

Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna Principal

External Viva

Name of the examiners: Signature with date: 1. Dr. H.C. Satellikuma 2. Dr. Sepra. M.V (Ha-1 Principa Sapthagiri College of Engineerin 14/5, Chikkasandra, Hesaraghatta Main Road

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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 ide 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 satis ies the academic requirements in respectof mini project work prescribed for the said degree.

5-107123

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. pr. HCSatella

2 Do' Sepse. M. K

Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengalum - Status

Signature with date:

214 210/23

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

Mr.LIKITH.R [1SG20EC058] 3. Mr. M HEMANTH REDDY [1SG20EC060]

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.

Calavalti.S

Name & signature of the Guide

2. Mr.DEEPAK.R.M [1SG20EC025]

4. Mr. HARI PRASAD.N [1SG20EC037]

Bis

Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna Principal

External Viva Name of the examiners: 1.

Dr. Sepna M. L Sapthagiri College of Engineering. 14/5, Chikkasandra, Hesaraghatta Main Road Bengalury - 560 057

Signature with date:

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Sri Srinivasa Educational and Charitable Trust* SAPTHAGIRI COLLEGE OF ENGINEERING (Affiliated to VTU Released and Recentional and Recentiona a

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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]

4. Lokesh H A [1SG20EC059]

BIL

3. Jeevan J [1SG20EC046]

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 respectof Mini project work prescribed for the said degree.

Dr. A M Nagaraja Professor

Dr. H C Sateesh Kumar Head of the Department

Signature with date:

anc of

Dr. H Ramakrishna Principal - Head of the Department Decironnes & Communication Sapthagiri College of Eligitusmug Europhoni puo out

External Viva

Name of the examiners: 1.

2. Dr. Sapoci M.

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatt Bengalur

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21/4/25

Sri Srinivasa Educational and Charitable Trust* SAPTHAGIRI COLLEGE OF ENGINEERING

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CERTIFICATE

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

1. Manu N Raj [1SG21EC402]

B17

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

47 m

Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna Principal

External Viva Name of the examiners:

1.

Principal

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 560.057 Signature with date:

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

Sahana C [1SG20EC088] 3. Sankeerna C [1SG20EC093]

A

2. Sampath Kumar S [1SG20EC091]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 respectof Mini project work prescribed for the said degree.

Prof. Kalavathi S Guide

Rat

H.Dr.H.C Sate Sh Kumar Elect Head of the Department Sapthagiri College of Engineering Bangaior 560 057

Dr. H Ramakrishna Principal

External Viva

Name of the examiners: 1. RAVI SHANKARA M.N

shilpa. chippala katti

Signature with date: outer

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

SAPTHAGIRI COLLEGE OF ENGINEERING

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

F 'cshitha A [1SG20EC084]

+2

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

Horl HC Sateesh Kumaront TechHead of the Department cation Sapthagiri College of Engineering Bangalore 560 057.

Dr. H Ramakrishna Principal

External Viva

Name of the examiners: 1. RAVISHANKARA MN Downda Katti 2. Shipa Chippala Katti 2. Shipa Chippala Katti

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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

A3

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 respectof mini project work prescribed for the said degree.

Dr. Prakash Jadhav Guide

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. Chippalo Kathi

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

Signature with date: 201

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Certified that the project work entitled "Plant Leaf Disease Detection" carried out by 1. Mamatha S [1SG20EC062] 2. Rohini D K [1SG20EC086] 4.Ume Haney S Olekar[1SG20EC111] 'ivani R[1SG20EC096] 3

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial ulfillment 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 ndicated 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.

Prof. Agalva P Associate Professor

Dr. H Ramakrishna

Principal

Dr. H C Sateesh Kumar Head of the Department

Head of the Department Hectronics & Communication Japthagiri College of Engineering Bangalon 560 057

External Viva

04

Name of the examiners: RAVI SHANKARA MN 1.

2. Shipa. Chippalakatti Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road

Bengaluru - 560 057

Signature with date: 20/7/23

Sri Srinivasa Educational and Charitable Trust⁴⁴ **SAPTHAGIRI COLLEGE OF ENGINEERING** (Affiliated to VTU, Belagavi, and Recognized by AICTE, New Delhi) (Accrediated by NAAC with "A" Grade), (Accredited by NBA) (ISO 9001-2015 and 14001-2015 Certified Institute) 14/5, Chikkasandra, Hesaraghatta, Main Road, Bengaluru-560057, Karmataka, India. **SAPTHAGIRI** College of Engineering Creating Tomorrow CERTIFICATE

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

1. Praveen J K [1SG20EC081] 3. Varun C [1SG20EC114]

AS

2. S Suhas [1SG20EC087] 4. Varun N V[1SG20EC115]

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 ignature of the Guide and HOD

External Viva Name of the examiners: Principal

Sapthagiri College of Engineering

Dr. H Ramakrishna Principal

Signature with date:

00

2 Shipa chippalakatti

SAPTHAGIRI COLLEGE OF ENGINEERING

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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] 3. YUVARAJ S [1SG20EC121]

2. VISHNU VAIBHAV S [1SG20EC120] 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

External Viva Name of the examiners:

- 1. RAVI SHANKARA. M.N.
- 2. Shilpa . chippalakatti

Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaradhatta Main Polar Bengaluru

Dr. H C Sateesh Kumar Head of the Department

Signature with date:

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

1 Aanjunath M H [1SG20EC064] 3. Shashank B J [1SG20EC094]

AT

2. Manoj G S [1SG20EC065] 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.

B

Dr. H C Sateesh Kumar Head of the Department

Prof. Shobha S Guide

> **Dr. H Ramakrishna** Principal

External Viva

Name of the examiners: 1. RAVI SHANKARA MN

shilpa. chippalakatti 2.

Signature with date: 52017/23

Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaradhetta Mair B. ac Bengalura

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Certificate

'er.d that the project work entitled"Character Recognition Using OCR" carried out byMohan Kumar C R [1SG20EC070]2. Prajwal G H [1SG20EC078]Prajwal H T[1SG20EC079]4. Rajesh H S [1SG20EC083]

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

enelti.S.

Name & signatur of the Guide

Dr. H Ramakrishna Principal

Dr. H C Sateesh Kumar Head of the Department

Head of the Department Decisions & Communication Contract College of Engancering Economic 360 657

rernal Examination me of the examiners: RAVI SHANKARA M.N.

Shipa chippalakatti

Signature with date: Detworker 20/23

802017123

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

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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]

E 1iss Supritha.M[1SG20EC105]

4. Miss Tejashwini.B[1SG20EC109]

Are bonafide students of Sapthagiri College of Engineering Bengaluru, in partial fulfillment for the award of degree of 6thsemester 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.

Faritrel

Prof. Ranjitha.R Project Guide

Ratc

Dr. H C Sateesh kumar Head of the Department

Dr. H Ramakrishna Principal

External Viva Name of the examiners:

1. RANI SHANKARA. M.N

Signature with date:

52017122

shilpa chippalakatti 2.

Sapthagiri College of Engineering 14/5. Chikkasandra, Hesaraghatta Main Road Bengaluru - 580 057

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FICATE ER

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

TRANSLATION USING ARDUINO" carried out by

PRIYA [1SG19EC067]

MEGHA R B [1SG20EC067]

MISBA MOHAMADI [1SG20EC069]

VARSHITHA M [ISG20EC113]

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

scher V She Prof. SUMA V.SHETTY

Assistant Professor

2 Shilpa. Chippalakath Sapthagiri College of Engineering 14/5. Chikkasandra, Hesaraghetta Main Roar

.Dr.H.Ramakrishna

External Viva Name of the examiners:

Ano

1 RAVISHANKARA, MIN

Principal

Bengaluru

H C Sateesh Kumar

Head of the Department Electronics & Comm Sapthagiri College of Euglicerii Bangalon -560 057

Signature with date:

Sri Srinivasa Educational and Charitable Trust® SAPTHAGIRI COLLEGE OF ENGINEERING

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CERTIFICATE

Cortified 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]

AN

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.

Ravi Shankara M N Associate Professor

Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna Principal

Principal

Bengaluru - 580 057

Head of the Department Electronics & Communication Sapthaghi College of Eritineering Bangalori 560 057

Signature with date: Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Rom

External Viva

Name of the examiners: RAVISHANKARA. MIN. 1.

2. Shilpa Chippalakatti

25

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

Manikanth M -1SG20EC063

2. Payal yati -1SG20EC075

4. Vinod C -1SG20EC118

3. Sujay B K -1SG20EC103

A12

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 miniproject work prescribed for the said degree.

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 Sapthagiri College of Engineeri 14/5, Chikkasandre, Hesaraghatta Main Bengaluru - 580,057

Signature with date:

antore

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

3. SWATHI P [1SG20EC106]

2. SINCHANA B [1SG20EC098] 4. V SUMANTH [1SG20EC112]

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 respectof Mini project work

prescribed for the said degree.

Dr. Shobha Hugar Associate professor



Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna Principal

External Viva

Name of the examiners: 1. RANI SHANKARA, MIN

2. Shilpa Chippalakathi

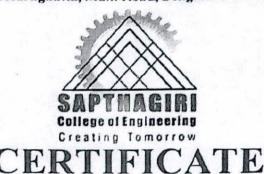
Signature with date: Sapthagiri College of Engineerina 14/5, Chikkasandra, Hesaraghatta Main Bengaluru - 560 occ

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

¹ Naveen.L.N -1SG20EC072

3.Pavan.G-1SG20EC074

A14

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. Manasa M G **Project** Guide

Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna Principal

Bengalury .

External Viva

Name of the examiners:

1 RAVISHANKARA. M.N.

2. Shilpa chippalakath Sapthagiri College of Engineering

Signature with date:

2. Nikilesh.K.G-1SG20EC073 4. Suprith-1SG20EC0104

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi, and Recognized by AICTE, New Delhi) (Accrediated 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, Judia.



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

M S Vibha [1SG20EC061]

Aus

2. Sahana P [1SG20EC090]

4. Swayam Sethi [1SG20EC107]

3. Vaachaspathy [1SG20EC097]

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.

Dr.Prakash Jadhav Associate Professor

Dr. H C Sateesh Kumar Head of the Department

Dr. H Ramakrishna Principal

External Viva

Name of the examiners: 1. RAULSHANKARA. MIN

2. Shilpa. Chippalakath Sapthagiri College of Engineering

Signature with date: 2117123

Beccalum

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