

Bapuji Educational Association @  
BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE-4  
Department of Electronics & Communication Engineering  
List of Mini Project Batches for the Academic Year 2021-22 (A Section)

Sl. No.	Batch No	USN	Name of student	Project Title	Name of guide
1	MPA1	4BD19EC012	ANJUM K N	Audio Compression using Wavelet	KSP
2		4BD19EC086	RAMESH M	Transformation in	
3		4BD19EC094	S MOUNIKA	MATLAB	
4		4BD19EC114	TEJASWINI DALLALI		
5	MPA2	4BD19EC022	C G BALAJI VAISHNAV SING	Students attendance using facial recognition	VHV
6		4BD19EC062	MITHUN K B		
7		4BD19EC066	NAMITHA L T		
8		4BD19EC122	JHANA V I R		
9	MPA3	4BD19EC028	DEEKSHA HIREMATT G	Arduino hand	Dr. GHL
10		4BD19EC054	MALLIKARJUN M KOPPAD	Gusture Control computer using Python	
11		4BD19EC058	MANOJ GOWDA N R		
12		4BD19EC092	ROOPA G R		
13	MPA4	4BD19EC014	ANUSHREE B N	Bluetooth Based Wireless Noticeboard Using Aurduno'	BKL
14		4BD19EC042	KARTHICK R KURUBAR		
15		4BD19EC110	SUMA T		
16		4BD20EC410	SANDESH S B		
17	MPA5	4BD19EC074	P SAI DHARMATEJA	Digital Compas	Dr. AKG
18		4BD19EC084	RAKSHITHA H M		
19		4BD19EC096	SANJANA M		
20		4BD20EC404	DARSHAN H S		
21	MPA6	4BD19EC100	SARVAMANGALA B S	Fire Alaram System using Aurduno with fire sensor	Dr. BMJ
22		4BD19EC108	SRUSHTI M C		
23		4BD19EC112	T VINEETH		
24		4BD19EC116	TRISHUL B G		
25	MPA7	4BD19EC006	AKASH R P	Virtual Assistance Using python	YKO
26		4BD19EC024	CHANDANA K R		
27		4BD19EC048	KRUTHI H S		
28		4BD19EC052	LUCKY JAIN		
29	MPA8	4BD19EC068	NAVEEN KUMAR P RAWAL	Rendering 3D model using Virtual Reality	GK
30		4BD19EC104	SHRILAXMI P SHETTAR		
31		4BD20EC400	AJAY T		
32		4BD19EC080	PRATHIKSHA K M		
33	MPA9	4BD19EC102	SHASHANK M G	Digital IC Tester	SGR
34		4BD19EC120	VINIT MANJUNATH NAIK		
35		4BD20EC406	KAVYA H		
36		4BD19EC032	DIVYASHREE N		
37	MPA10	4BD19EC044	KAVYA K T	Wireless Power Transmission	SKG
38		4BD19EC098	SANJAY B G		
39		4BD20EC412	SHASHANK B I		
40		4BD19EC050	LATHA M		
41	MPA11	4BD19EC056	MANJUNATH N	RFID car Parking System with Arduino	KMP
42		4BD19EC060	MANOJ R S		
43		4BD20EC408	MEGHA PATRI		
44		4BD19EC020	BINDU B A		
45	MPA12	4BD19EC040	ISAHAO AHAMED BEIG	1-D Signal Processing Using Matlab	KGH
46		4BD19EC072	NIKHIL P TARIKOPPA		
47		4BD19EC106	SOUMYA K		
48		4BD19EC008	ANANYA S		
49	MPA13	4BD19EC088	RISHI KETU CHAND	Android Based Functid	Dr. NSO
50		4BD19EC090	RITESH KUMAR		
51		4BD20EC416	TEJAS C T		
52		4BD19EC076	PAVANKUMAR PUTTARAJ M		
53	MPA14	4BD19EC078	PRAJWAL REDDY S	Automatic Fan Speed Controller using Arduino	Dr. GSS
54		4BD20EC414	SHRISHAIL		
55		4BD19EC010	ANJALI T G		
56		4BD19EC030	DIVYA A		
57	MPA15	4BD19EC036	HARISH T	Dynamic road Traffic signal cntrol sytem	RYR
58		4BD19EC038	HARSHA T V		
59		4BD19EC016	BHAGYA S R		
60		4BD19EC018	BHAVANA U		
61	MPA16	4BD19EC026	DARSHAN M	Alcoholic Sensing Alert with Engine Locking System Using 8051	MC
62		4BD19EC082	RAHUL C		
63		4BD19EC002	ABHISHEK M TOTAD		
64		4BD19EC004	AKASH BASANAGOUDA SUT		
65	MPA17	4BD19EC118	VEERESH N A SHETTER	FACE RECOGNITION DOOR LOCK SYSTEM UANG RASPERRY PAI	PGN
66		4BD18EC014	ASHISH V		
67		4BD19EC070	NAVEENKUMAR KALAL		
68		4BD19EC034	HAMSAVENI P	Finger Print Door Lock System using Arduino Uno	
69	4BD20EC402	BHUMIKA N		BS	

List of Mini Project Batches for the Academic Year 2021-22 (B Section)

Sl. No.	Batch No	USN	Name of student	Project Title	Name of guide
1	MPB1	4BD19EC085	Rakshit Gowda	Books and Stationary vending machine using Arduino	Dr. GSS
2		4BD19EC091	Rohan A M		
3		4BD19EC099	Sanmathi Satabhaj		
4	MPB2	4BD19EC001	ABHISHEK K U	USB Joystick using Arduino	KMP
5		4BD19EC007	AKASH V		
6		4BD19EC069	NAVEEN KUMAR R L		
7		4BD20EC401	ASHWINI H B		
8	MPB3	4BD19EC029	Dileep Kumar K G	Electronic Voting Machine	SBS
9		4BD19EC089	Rishikesh M Swami		
10		4BD19EC097	Sanjana P		
11		4BD20EC415	Swathi G		
12	MPB4	4BD19EC057	Manjunath Yadav	IOT Based Vehicle Tracking System using NodeMCU and Arduino IDE	RPN
13		4BD19EC065	Monisha N S		
14		4BD19EC115	Tejaswini G C		
15		4BD20EC413	Shivam R Chavan		
16	MPB5	4BD19EC061	Mithun K	Automatic Plant watering system	Dr. NSO
17		4BD19EC063	Mohammed Malik Rehan		
18		4BD19EC065	Nandana Basetty		
19		4BD19EC071	Neelambika S		
20	MPB6	4BD19EC075	Pavankumar R	Rain Alarm Project and Air Flow Detector using 555 Timer	Dr. BMJ
21		4BD19EC103	Shashank N		
22		4BD19EC105	Siri S		
23		4BD19EC119	Vidyashree T R		
24	MPB7	4BD19EC055	Manjunath G M	Winner	BKI
25		4BD19EC073	Nitish N Muddeppagoudra		

26		4BD19EC083	Rajeshwari G S	Announcement	
27		4BD20EC407	KaVYASHRI K		
28		4BD19EC033	GANAVI V		
29	MPB8	4BD19EC041	KAARTHIKEYA PAHALWAN	Heart beat monitoring using aurdino	KGH
30		4BD19EC043	KARTHIK C M		
31		4BD19EC121	YASHU N R		
32	MPB9	4BD19EC015	ASHWINI V JAYSHETTY	Drowsiness detection System	NG
33		4BD19EC025	CHINMAYRAJ J N		
34		4BD19EC037	HARSHA B CHIGATERI		
35	MPB10	4BD20EC409	PALLAVI K	Solar Powered Mobile Phone Charger Circuit	BS
36		4BD18EC119	VINAYAK M MOLEKAR		
37		4BD19EC059	MANOJ NAGARAJ KASAL		
38		4BD19EC111	SUNIL KUMAR C		
39	MPB11	4BD19EC077	PRAJWAL N	Smart Blind Stick	Dr. AKG
40		4BD19EC079	PRAJWAL Y SHIRAGERI		
41		4BD19EC081	PRIYANKA K M		
42		4BD19EC051	LINGARAJ GOUDA		
43	MPB12	4BD19EC023	CHANDAN M	Digital Object Counter	SKG
44		4BD19EC093	RUCHITHA P M		
45		4BD19EC039	HARSHITHA K P		
46		4BD19EC035	H AJAY SIMHA		
47	MPB13	4BD19EC031	DIVYA R	Fire detection and Alaram System using 8051	Dr. GHL
48		4BD19EC101	SHASHANK K H		
49		4BD19EC107	SOURAV M S		
50		4BD19EC117	VARSHA PATEL A P		
51	MPB14	4BD19EC013	ANUSHA H S	Automatic Room Light Controller with Bidirectional visitor counter using	SSD
52		4BD19EC017	BHARAT RITTI		
53		4BD19EC019	BHOOMIKA H		
54		4BD20EC411	SANTHOSH KUMAR		
55	MPB15	4BD19EC009	ANIKET VILAS VAKUDE	Automatic railway gate Control System:	SGR
56		4BD19EC011	ANJINI N		
57		4BD20EC405	DHARANI A S		
58	MPB16	4BD19EC003	ADITYA KUMAR	Automated Night Lightning System	RYR
59		4BD19EC027	DARSHINI B S		
60		4BD19EC109	SUKUMARA SWAMY H S		
61		4BD18EC039	HARSHINI S B		
62	MPB17	4BD19EC053	Madhu M Jadav	Smoke detection with MO-2 gas using Arduino	AIK
63		4BD19EC113	Teena Kumari C R		
64		4BD20EC403	CHAITANYA N		
65		4BD19EC005	AKASH N C		
66	MPB18	4BD19EC095	SAHANA D N	Movie Recommendation system using machine learning	SWS
67		4BD18EC035	HAMEED M KATTIMANI		
68		4BD19EC021	BINDU C H		
69		4BD19EC045	KEERTHY V		

Dr. G H Leela, Mr. Kantharaj S P  
Project Coordinator

Dr. G S Sunitha  
Program Coordinator

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA- 577004**



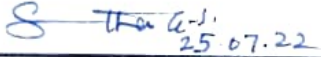
**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the mini project work entitled "AUDIO COMPRESSION USING WAVELET TRANSFORMATION IN MATLAB" carried out by Ms.ANJUM KN USN 4BD19EC012, Mr.RAMESH M USN 4BD19EC086, Ms. S MOUNIKA USN 4BD19EC094 and Ms.TEJASWINI DALLALI USN 4BD19EC114 bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagum** during the academic year 2022-2023. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

  
**Kantharaj S P**  
M.Tech  
Project Guide

  
**PRINCIPAL**  
Bapuji Institute of Engineering & Technology  
DAVANGERE.  
**Dr. H.B. Aravind**  
ME., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

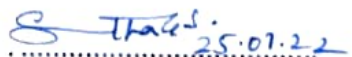
  
**Dr. G.S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Program Coordinator

External Viva-voce

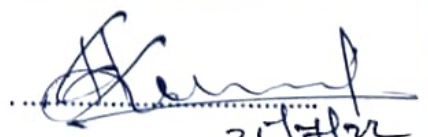
Name of the Examiners

Signature with Date

1. Dr. G.S. Sunitha

  
25.07.22

2. Kinan Kumar G H

  
25/7/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DAVANGERE, KARNATAKA - 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the mini project work entitled "Students Attendance Using Facial Recognition" carried out by Mr. C G Balaji Vaishnav Singh USN 4BD19EC022, Mr. Mithun K B USN 4BD19EC062, Ms. Namitha L T USN 4BD19EC066, Ms. Jhanavi R USN 4BD19EC122, bonafide students of this institution in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics & Communication by Visvesvaraya Technological University, Belgaum during the academic year 2021-22. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

**Mrs. Vanishree H V**  
M.Tech  
Project Guide

*S. The G.S.*  
25.7.22.

**Dr. G.S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Program coordinator

**Dr. H.B. Dhananjay**  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

**External Viva-voce**

**Name of the Examiners**

1. *Dr. G.S. Sunitha*
2. *Kishan Kumar GH*

**Signature with Date**

*S. The G.S.*  
25.07.22.

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DAVANGERE ,KARNATAKA-577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the project work entitled "*Movie recommendation system using machine learning*" carried out by Ms. BINDU C.H., USN 4BD19EC021, Ms. KEERTHY V, USN 4BD19EC045, Ms. SAHANA D.N,USN 4BD19EC095 , Mr. HAMEED M KATTIMANI ,USN 4BD18EC035, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year **2021-22**. 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.

**Shwetha S**  
M.Tech,MISTE,MIETE  
Mini ProjectGuide

25.07.22

**Dr.G.S.Sunitha**  
M.Tech.(DEAC),Ph.D.,MISTE,FIETE,,FIE  
Program coordinator

**PRINCIPAL**  
Bapuji Institute of Engineering & Technology  
**Dr.H.B.Aravinda** RE.  
M.E.,(Env.Engg.)Ph.D.,FIE.,MISTE.,FIEE  
Principal

**EXTERNALVIVAVOCE**

**Name of the Examiners**

1. Dr. Prakash.RM
2. Kantharaj SP

**Signature with Date**

26/7

26.7.22.

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA - 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the mini project work entitled "**Automatic Room Light Controller With Bidirectional Visitor Counter**" carried out by Ms. ANUSHA H S, USN 4BD19EC013, Mr. BHARAT RITTI, USN 4BD19EC017, Ms. BHOOMIKA H, USN 4BD19EC019, Mr. SANTOSH KAMMAR, USN 4BD20EC411 bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication by Visvesvaraya Technological University, Belagavi** during the academic year 2022-23. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said degree

  
**Sucharitha S D**  
M.Tech  
Mini Project Guide

  
**Dr. G.S. Sunitha**  
25.07.22

M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE

**Program Coordinator**

  
**PRINCIPAL**  
Bapuji Institute of Engineering & Technology  
DAVANGERE.

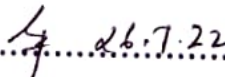
**Dr. H.B. Aravind**  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
**Principal**

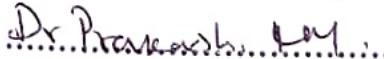
External viva- voce

**Name of the Examiners**

**Signature with Date**

1.  S.P.

 26.7.22

2.  M.

 26/8

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the project work entitled "*AUTOMATIC RAILWAY GATE CONTROL SYSTEM*" carried out by Mr. ANIKET.V, USN 4BD19EC009, Mr. ANJINI.N, USN 4BD19EC011, Ms. DHARANI.A. S, USN 4BD20EC405, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. 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.

*Smt. Savithri G.R.*  
Smt.Savithri.G.R  
M.Tech, MISTE, MIE  
Mini Project Guide

*Dr. G.S. Sunitha*  
26.07.22

Dr. G.S. Sunitha  
M.Tech. (DEAC), Ph.D., MISTE, FISTE, FIE  
Program coordinator

*Dr. H.B. Anjanappa*  
PRINCIPAL  
Bapuji Institute of Engineering & Technology  
M.E. (Eng. Eng. Eng.), FIE., MISTE., FIEE  
Principal

External Viva-voce

Name of the Examiners

1. *Kanakaraj S.P.*
2. *Dr. Premanna K.M.*

Signature with Date

*Dr. H.B. Anjanappa* 26.7.22  
*Dr. Premanna K.M.* 26/7

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA- 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the mini project work entitled "SOLAR POWERED MOBILE CHARGER CIRCUIT" carried out by Mr. VINAYAK MAHADEVAPPA OLEKAR USN 4BD18EC119, Mr. MANOJ NAGARAJ KASAL USN 4BD19EC059, Mr. SUNIL KUMAR C USN 4BD19EC111 and Ms. PALLAVI K USN 4BD20EC409 bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagum** during the academic year 2022-2023. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

**Bhagya Shanthakumar**  
M.Tech., MISTE., MIETE  
Project Guide

**PRINCIPAL**  
Bapuji Institute of Engineering &  
DAVANGERE.

26.7.2022

**Dr. G.S. Sumithra**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE, FIE  
Program Coordinator

**Dr. H.B. Aravind**  
ME., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

External Viva-voce

Name of the Examiners

Signature with Date

1. .... Dr. AVINASH K.G. ....

26/07/22

2. .... NIRMALA G. ....

26/07/22

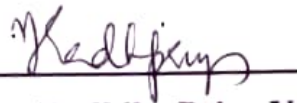
**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA- 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

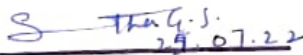
Certified that the mini project work entitled "AUTOMATIC NIGHT LAMP" carried out by Mr. ADITYA KUMAR, USN 4BD19EC003, Ms. DARSHINI. B.S, USN 4BD19EC027, Mr. SUKUMAR SWAMY. H.S, USN 4BD19EC109 and Ms. HARSHINI. S.B, USN 4BD18EC039 bonafide students of this institution in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics & Communication by Visvesvaraya Technological University, Belagum during the academic year 2021-2022. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.



**Smt. Radhika Priya. Y.R**

M.Tech., MISTE


**Project Guide**

  
29.07.22

**Dr. G.S. Sunitha**

M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE

**Program Coordinator**

  
PRINCIPAL  
Bapuji Institute of Engineering & Technology  
DAVANGERE

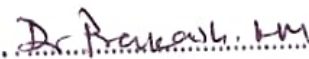
**Dr. H.B. Aravinda**

ME., (Env. Engg.) Ph.D., FIE., MISTE., FIEE

**Principal**


**External Viva-voce**

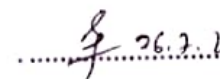
Name of the Examiners

1. 

2. 

Signature with Date

 26/8

 26.7.22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION**  
**ENGINEERING**

**Certificate**

Certified that the mini-project work entitled “*SMOKE DETECTOR USING MQ2 SENSOR AND ARDUINO*” carried out by **Mr. AKASH N C**, USN 4BD19EC005, **Ms. MADHU M JADHAV** USN 4BD19EC053, **Ms. TEENAKUMARI C R**, USN 4BD19EC113, **Ms. CHAITANYA N**, USN 4BD20EC403 bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University**, Belagavi during the academic year 2021-22. 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.

**Ali IK**  
BE M.Tech.(Digital Communication & Networking)  
Project Guide

**Dr. G.S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE, FIE  
Program Coordinator

**DR. BHATARA OF THE**  
**PRINCIPAL**  
M.E., (EAV) DAVANGERE, MISTE, FIETE  
Principal

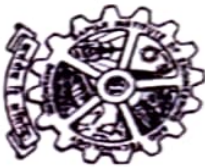
External Viva-voce

Name of the Examiners

1. **Dr. Prakash B.M**.....
2. **Dr. Kantaraj S.P**.....

Signature with Date

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA - 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the mini project work entitled **AUTOMATED PLANT WATERING SYSTEM** carried out by **Mr. MITHUN K.**, USN 4BD19EC061, **Mr. MOHAMMED MALIK REHAN**, USN 4BD19EC063, **Ms. NANDANA BASSETTY**, USN 4BD19EC067, **Ms. NEELAMBIKA S.**, USN 4BD19EC071, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Viveśvaraya Technological University**, Belagavi during the academic year **2022-23**. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

*Nimale 29/06/22*  
**Dr. Nirmala S.O.**  
M. E. Ph. D, MISTE, MIEET  
Mini Project Guide

*Nimale 29/06/22*  
**PRINCIPAL**  
Bapuji Institute of Engineering & Technology  
DAVANGERE.  
**Dr. H. B. Aravind**  
M.E., (Env. Engg) Ph.D., FIE., MISTE., FIEE  
Principal

*S. H. G. S.*  
**Dr. G. S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Program Coordinator

External Viva-Voce

Name of the Examiners

1. *Dr. Nirmala S.O.*
2. *S. Shwetha*

Signature with Date

*Nimale 29/06/22*  
*02/07/22*

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA-577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**


**Certificate**

Certified that the mini project work entitled "*IOT BASED VEHICLE TRACKING SYSTEM*" carried out by **MR. MANJUNATH YADAV USN 4BD19EC057, Ms. MONISHA N S USN 4BD19EC065, Ms. TEJASWINI G C USN 4BD19EC115, Mr. SHIVAM R C USN 4BD20EC413** bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Viveśvaraya Technological University**, Belagavi during the academic year 2022-23. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said degree.

**Ranjith Patil. N**

B.E., M.Tech.

Project Guide

  
26.07.22

**PRINCIPAL**

**Bapuji Institute of Engineering & Technology  
DAVANGERE.**

**Dr. G.S. Sunitha**

M.Tech. (DEAC), Ph.D., BUSTE, FIETE, FIE

Program Coordinator

**Dr. H.B. Aravind**

M.E. (Env. Engg) Ph.D., FIE., MISTE., FIEE

Principal

External Viva-Voce

**Name of the Examiners**

1. .... **Dr. Nirmada S D** .....

2. .... **S. Shweta** .....

**Signature with Date**

..... **Nirmada S D** ..... 26/7/22

..... **S. Shweta** ..... 26/7/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the project work entitled "*Heart Beat Sensor Using Arduino*" carried out by  
**Ms. GANAVI V, USN 4BD19EC033, Mr. KAARTHIKEYA PAHALWAN, USN 4BD19EC041,**  
**Mr. KARTHIK C M, USN 4BD19EC043, Ms. YASHU N R, USN 4BD19EC121,** bonafide students  
of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in**  
**Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the  
academic year **2021-22**. It is certified that all corrections / suggestions indicated for internal assessment  
have been incorporated in the report deposited in the departmental library. The project report has been  
approved as it satisfies the academic requirements in respect of Project work prescribed for the said  
degree.

**Mr. Kiran Kumar G. H.**  
M.Tech  
Project Guide

**PRINCIPAL**  
Bapuji Institute of Engineering & Technology

**Dr. G. S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE, FIE  
Program coordinator

**Dr. H. B. Aravind**  
M.E. (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

External Viva-voce

Name of the Examiners

1. .... **Dr. AVTNASH K.G.** .....
2. .... **NI BARMALA S.** .....

Signature with Date

..... **24/7/22** .....

..... **26/7/2022** .....

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the project work entitled “ELECTRONIC VOTING MACHINE ARDUINO” carried out by **Mr. DILEEPKUMAR K G, USN 4BD19EC029, Mr. RISHIKESH M SWAMI, USN 4BD19EC089, Ms. SANJANA P, USN 4BD19EC097, Ms. SWATHI G, USN 4BD20EC415**, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022. 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. Suman B S*  
26/07/22

**Mrs. Suman B S**

Assistant of professor

**Mini Project Guide**

*S. G. S.*  
26.07.22

**Dr. G.S. Sunitha**

M.Tech. (DEAC), Ph.D., MESTE, FIETE, FIE

**Program Coordinator**

*S. Suman B S*  
26/07/22

**PRINCIPAL**

**Bapuji Institute of Engineering & Technology**  
M.E. Davangere  
DAVANGERE,  
Principal

External Viva-voce

**Name of the Examiners**

**Signature with Date**

1. .... *Dr. Nirmala S D*
2. .... *S. Shwetka*

1. .... *Nirmala S D 26/07/2022*
2. .... *S. Shwetka 26/07/2022*

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA- 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the mini project work entitled **BLIND STICK** carried out by **Mr. LINGARAJ GOUDA, USN 4BD19EC051, Mr. PRAJWAL .N, USN 4BD19EC077, Mr. PRAJWAL .Y. SHIRAGERI, USN 4BD19EC079 and Ms. PRIYANKA .K.M., USN 4BD19EC081** bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

*Avinash*

**Dr. K. G. Avinash**

M.Tech., Ph.D., MIEEE, MISTE., MIED

Project Guide

**Bapuji Institute of Engineering & Technology**

DAVANGERE

*S. G. S.*  
~~28.07.22~~

**Dr. G. S. Suresha**

M.Tech. (DEAC), Ph.D., MISTE, FETFE, MIE.

Program Coordinator

*Aravind*

**Dr. H. B. Aravind**

ME., (Env. Engg.) Ph.D., FIE., MISTE., FIEE.

Principal

External Viva-voce

Name of the Examiners

Signature with Date

1. *Dr. K.G. Avinash*

*Avinash 24/11/22*

2. *M. Ramana C*

*Aravind 26/07/2022*

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the Mini project work entitled “**SMOKE DETECTION AND ALARM SYSTEM USING 8051 MICROCONTROLLER**” carried out by Ms. DIVYA R, USN 4BD19EC031, Mr. SHASHANK K H, USN 4BD19EC101, Mr. SOURAV M S, USN 4BD19EC107, Ms. VARSHA PATEL A P, USN 4BD19EC117, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year **2022-23**. 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.

*Leela*

**Dr. LEELA.G.H**  
M.E,PH.D,MISTE,MIEEE  
Project Guide

*Dr. Leela G.H*  
**PRINCIPAL**  
Bapuji Institute of Engineering & Technology  
DAVANGERE.

**Dr. G.S. SUNITHA**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE, FIE  
Program Coordinator

**Dr. H.B. ARAVIND**  
M.E., (Env. Engg) Ph.D., FIE, MISTE, FIEE  
Principal

External Viva-voce

Name of the Examiners

1. *Dr. Rakshak*.....
2. *Dr. Kantilalraj*.....S.P

Signature with Date

*Dr. Rakshak* 26/7  
.....  
*Dr. Kantilalraj* 26.7.22  
.....

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DAVANGERE, KARNATAKA – 577 004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION**  
**ENGINEERING**

**Certificate**

Certified that the mini-project work entitled "DROWSINESS DETECTION SYSTEM" carried out by **Ms. ASHWINI V. JAYSHETTY**, USN 4BD19EC015, **Mr. CHINMAYRAJ J. N.**, USN 4BD19EC025, **Mr. HARSHA B. CHIGATERI**, USN 4BD19EC037, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-23. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini-project report has been approved as it satisfies the academic requirements in respect of Mini-Project work prescribed for the said degree.

*Nirmala G.*  
**NIRMALA G.**  
B.Sc., B.E.(E&CE), M.Tech.(CSE), MISTE  
Mini Project Guide

*Dr. G. S. Sunitha*  
**Dr. G. S. SUNITHA**  
M.Tech.(DEAC), Ph.D., MISTE, FIETE, FIE  
Program Coordinator

*Dr. H. B. Aravinthgere*  
**Dr. H. B. ARAVINHGERE.**  
M.E., (Env. Enge.) Ph.D., FIE, MISTE, FIEE  
Principal

External Viva-voce

Name of the Examiners  
**IDR. AVINASH K.G.**  
2. .... **MIRMALA G.**.....

Signature with Date  
*Avinash K.G.* 26/11/22  
..... *Mirimala G.* 26/11/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA- 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the mini project work entitled "JOYSTICK USING ARDUINO" carried out by  
Mr. ABHISHEK K U, USN 4BD19ECC001, Mr. AKASH V, USN 4BD19ECC007, Mr. NAVEEN  
KUMAR R L, USN 4BD19ECC069, Ms. ASHWINI H B, USN 4BD20ECC401, bonafide students of  
this institution in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics  
& Communication by Visvesvaraya Technological University, Belagavi during the academic year  
2022-2023. It is certified that all corrections/ suggestions indicated for internal assessment have been  
incorporated in the report deposited in the departmental library. 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. Prakash K.M.**  
M.Tech, Ph.D., MISTE, F.IETE, FIE  
Project Guide

*Dr. G.S. Sunitha*  
25.07.22

**Dr. G.S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, F.IETE, FIE  
Program Coordinator

**Dr. H.B. Aravind**  
ME., (Env. Engg) Ph.D., FIE., MISTE., F.IEE  
Principal  
Bapuji Institute of Engineering & Technology  
Davangere

External Viva-voce

Name of the Examiners

Signature with Date

1. .... Dr. Nirmala S D
2. .... S Shweta

..... Nirmala S D 24/07/2022  
..... S Shweta 24/7/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DAVANGERE, KARNATAKA-577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the project work entitled "WATER DETECTOR" carried out by Mr. Pavan Kumar R, USN 4BD19EC075, Mr. Shashank N, USN 4BD19EC105, Ms. Siri S, USN 4BD19EC105, Ms. Vidya Shree T R, USN 4BD19EC119. Bonified students of this institution in partial fulfillment for the award of the degree of **Bachelor of Engineering in Electronics and Communication** by **Visvesvaraya Technological University, Belagavi** during academic year **2022-2023**. 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

*Principals*

**DR. JAYDEVAPPA B.M**  
M.E, Ph. D., MISTE, MIETE, MIE  
Project Guide

*Principals*

**PRINCIPAL**  
Bapuji Institute of Engineering & Technology  
DAVANGERE.

**Dr.G.S. SUNITHA**  
M.Tech (DEAC), Ph.D., MISTE, FIETE, FIE.

Program Coordinator

**Dr.H.B. ARAVIND**  
M.E. (Env. Eng.) Ph. D. FIE, MISTE, FIEE

Principal

**External Viva-voce**

Name of the Examiners

1. *Dr. Nimala S O*
2. *S - Shweta*

Signature with Date

*Nimala S O*  
*S* 26/7/2022

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the project work entitled “**DIGITAL OBJECT COUNTER**” carried out by **Mr. CHANDAN M**, USN 4BD19EC023, **Mr. HARESAMUDRAM AJAY SIMHA**, USN 4BD19EC035, **Ms. HARSHITHA K P**, USN 4BD19EC039, **Ms. RUCHITHA P M**, USN 4BD19EC093, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belgaum** during the academic year **2021-22**. 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 K G**

M.Tech

**Project Guide**

**Dr. G S Sunitha**

M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE

**Program coordinator**

**PRINCIPAL**

**Dr. H B Aravind**

M.E., (Env. Engg.) Ph.D. FIE, MISTE., FIEE

**Principal**

External viva- voce

**Name of the Examiners**

1. **Dr. K. G. Aravind**.....
2. **Suma K G**.....

**Signature with Date**

.....  
.....

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

It is certified that the project work entitled **WINNER ANNOUNCEMENT** carried out by **Mr.MANJUNATH G.M,USN 4BD19EC055,Mr.NITISH N.M,USN 4BD19EC073,Ms.RAJESHWARI G.S, USN 4BD19EC083, Ms.KAVYASHRI K,USN 4BD20EC407** bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belgavi** during the academic year **2022-23**. It is certified that all corrections /suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

**Smt. BANUMATHI K. L**  
M.Tech  
Mini Project Guide

**Dr. G. S. SUNITHA**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Program Coordinator

**Dr. H. B. ARAVINDERE.**  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

**External Viva-voce**

**Name of the Examiners**

1. **Dr. K. GAJANANACH**.....
2. **NIRMALA G.**.....

**Signature with Date**

.....  
  
.....



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

**Certificate**

Certified that the mini project work entitled "BLUETOOTH BASED WIRELESS NOTICEBOARD" carried out by Ms. ANUSHREE B.N , USN 4BD19EC014, Mr. KARTHICK R KURUBAR , USN 4BD19EC042, Ms. SUMA.T , USN 4BD19EC110, Mr. SANDESH S.B ,USN 4BD20EC420, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University**, Belagavi during the academic year **2021-22**. 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 mini project work prescribed for the said degree.

Mrs. BANDUMATHI K.L

M.Tech

Project Guide

  
25.07.22

**Dr. G S Sunitha**

M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE

**Program coordinator**

PRINCIPAL

Bapuji Institute of Engineering & Technology

**Dr. H.B. Aravind**

M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE

**Principal**

**External Viva-voce**

**Name of the Examiners**

1. Dr. G.S. Sunitha
2. Kishan Kumar GH

**Signature with Date**

  
25.07.22  
25/7/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the mini project work entitled **ARDUINO BASED RADAR SYSTEM** carried out by Ms.PRATHIKSHA K M, USN 4BD19EC080, Mr.SHASHANK M G, USN 4BD19EC102, Mr.VINIT MANJUNATH NAIK,USN 4BD19EC120, Ms.KAVYA H ,USN 4BD20EC406, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year **2021-22**. 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.

*Smt. Savithri G R*

**Smt. Savithri G R**  
M.Tech,MISTE,MIE

**Mini Project Guide**

*Dr. H.B. Aravind*  
**PRINCIPAL**

**Bapuji Institute of Engineering & Technology  
DAVANGERE.**

**Dr. H.B. Aravind**  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE

**Principal**

*Dr. G.S. Sunitha*

**Dr. G.S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE

**Program coordinator**

**External Viva-voce**

**Name of the Examiners**

1. *Dr. Prakash. M*.....
2. *MAHENDRACHARI*.....

**Signature with Date**

*Dr. H.B. Aravind* 25/7.....  
*MAHENDRACHARI*.....

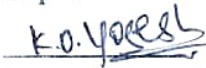
**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**


Certified that the project work entitled “*Virtual Assistance Using Python*” carried out by Mr. AKASH R P , USN 4BD19EC006, Ms. CHANDANA K R, USN 4BD19EC024, Ms. KRUTHI H S, USN 4BD19EC048, Mr. LUCKY JAIN , USN 4BD19EC052, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year **2021-22**. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.



Mr. Yogesha K O  
M.Tech  
Project Guide



PRINCIPAL  
Bapuji Institute of Engineering & Technology  
DAVANGERE.

  
25.07.22.

Dr. G.S. Sunitha  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Program coordinator



Dr. H. B. Aravind  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

**External Viva-voce**

Name of the Examiners

1. Dr. Ramesh B.M.
2. MAHENDRACHARI

Signature with Date

  
25/7  
  
25/07/22

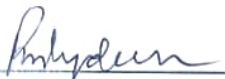
**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DAVANGERE, KARNATAKA – 577004**

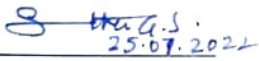



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the project work entitled "*Fire alarm system*" carried out by **Ms. SARVAMANGALA B S, USN 4BD19EC100, Ms. SRUSHTI M C, USN 4BD19EC108, Mr. T VINEETH, USN 4BD19EC112, Mr. TRISHUL B G, USN 4BD19EC116**, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year **2022-23**. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.


  
**Dr. B. M. Jayadevappa**  
M.E., Ph.D., MISTE, MIE, MIETE  
Project Guide

  
**Dr. G. S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Program coordinator

  
**PRINCIPAL**  
Bapuji Institute of Engineering & Technology  
DAVANGERE.  
**Dr. H. B. Aravind**  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

**External Viva-voce**

**Name of the Examiners**  
1. Dr. G. S. Sunitha  
2. Kiray Kumar GH

**Signature with Date**  
Dr. G. S. Sunitha  
25.07.2022  
  
25/7/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the mini project work entitled **“WIRELESS POWER TRANSMISSION”** carried out by **Ms. DIVYASHREE N USN 4BD19EC032, Ms. KAVYA K T USN 4BD19EC044, Mr. SANJAY B G USN 4BD19EC098, Mr. SHASHANK B I USN 4BD20EC412**, bonafide students of this institution in partial fulfilment for the award of degree of **Bachelor of Engineering in Electronics & Communication by Visvesvaraya Technological University, Belagavi** during the academic year **2021-22**. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said degree.

**SUMA K G**

M.Tech

Mini Project Guide

**Dr. G S SUNITHA**

M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE

Program coordinator

**PRINCIPAL**

Bapuji Institute of Engineering & Technology

DAVANGERE.

**Dr. H B ARAVIND**

M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE

Principal

**External Viva-voce**

**Name of the Examiners**

1. Dr. Prapankh. K.M.
2. MAHENDRACHARI

**Signature with Date**

25/07/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

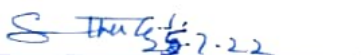
**Certificate**

Certified that the project work entitled "RENDERING 3D MODEL USING VIRTUAL REALITY" carried out by Mr. NAVEEN KUMAR P. RAWAL, USN 4BD19EC068, Ms. SHRILAXMI P. SHETTAR, USN 4BD19EC104, Mr. AJAY T., USN 4BD20EC400, bonafide students of this institution in partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Communication by Visvesvaraya Technological University, Belgaum during the academic year 2021-22. 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.

  
25/7/22

Mr. Ganesh K.  
M.Tech, MIEEE  
Project Guide

  
PRINCIPAL  
Bapuji Institute of Engineering & Tec  
DAVANGERE

  
25-7-22

Dr. G.S. Sunitha  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Program Coordinator


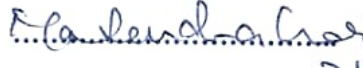
Dr. H.B. Aravind  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

External Viva-voce

Name of the Examiners

1. Dr. Praveen K.M.
2. MAHENDRAGARJ

Signature with Date

  
25/7  
  
25/07/22

Department of Electronics & Communication Engineering  
2021-2022

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA- 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

### Certificate

Certified that the mini project work entitled "1-D SIGNAL PROCESSING USING MATLAB" carried out by Ms. BINDU B A USN 4BD19EC020, Mr. ISAHAQ AHAMED BEIG USN 4BD19EC040, Mr. NIKHIL P TARIKOPPA USN 4BD19EC072 and Ms. SOUMYA K USN 4BD19EC106, **bonafide** students of this institution in partial fulfilment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year **2022-2023**. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

**Mr. Kiran Kumar G H**  
M. Tech

Project guide

**Bapuji Institute of Engineering & Technology  
DAVANGERE.**

**Dr. H. B. Aravind**

M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE.

**Principal**

  
25-07-22.

**Dr. G. S. Sunitha**

M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE

**Program Coordinator**

Name of the Examiner

1. Dr. Ramas... am.
2. M.HENDRACHARI

Signature with Date

  
25/7/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the project work entitled “*Direction Predictor*” carried out by **Mr. P Sai DharmaTeja** (4BD19EC074), **Ms. Rakshitha H M** (4BD19EC084), **Ms. Sanjana M** (4BD19EC096), **Mr. Darshan H S** (4BD20EC404), bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year **2022-23**. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. 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. K. G Avinash**  
Ph.D., MIETE., MIEEE., MISTE., MIE  
**Project Guide**

  
25.07.22

**Dr. G. S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
**Program coordinator**

  
PRINCIPAL

Bapuji Institute of Engineering & Technology  
**Dr. H. B. Aravind**  
M.E., (Env Engg.) Ph.D., FIE., MISTE., FIEE  
**Principal**

**External Viva-voce**

**Name of the Examiners**

1. Dr. G. S. Sunitha
2. Kiran Kumar G H

**Signature with Date**

  
25/7/22

# BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY

DAVANGERE, KARNATAKA – 577004



## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Certificate

Certified that the mini project work entitled **HAND GESTURE CONTROL COMPUTER** carried out by Ms. DEEKSHA HERIMATH G USN 4BD19EC028, Mr. MALLIKARJUN M KOPPAD USN 4BD19EC054, Mr. MANOJ GOWDA N R USN 4BD19EC058, Ms. ROOPA G R USN 4BD19EC092 Bonafede students of this institution in partial fulfillment for the award of the degree of **Bachelor of Engineering in Electronics & Communication** by Visvesvaraya Technological University, Belgaum during the academic year 2022-23. 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.

  
25/7/22

Dr. G.H Leela

M.E., P.D., MISTE., MIETE.

Project Guide

  
25.7.22

Dr. G.S. Sunitha

MTech. (DEAC), Ph.D., MISTE, FIETE., FIE

Program Coordinator

  
PRINCIPAL

Bapuji Institute of Engineering & Technology

Dr. H.B. Aravind

M.E., (Env. Eng.) Ph.D., FIE., MISTE., FIEE

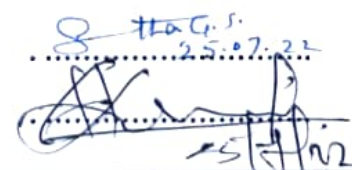
Principal

### External Viva-voce

Name of the Examiners

1. Dr. G.S. Sunitha
2. Kiran Kumar G.H

Signature with Date

  
25.07.22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Certificate**

Certified that the Mini Project entitled "**RFID BASED CAR PARKING SYSTEM**" carried out by Miss. LATHA M, USN 4BD19EC050, Mr. MANJUNATH N, USN 4BD19EC056, Mr. MANOJ R S, USN 4BD19EC060, Miss. MEGHA PATRI, USN 4BD20EC408, **bonafide** students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belgaum** during the academic year **2021-22**. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

**Dr. PRAKASH K M**  
M.Tech, Ph.D., MISTE, FIETE., FIE  
Project Guide

  
25.07.22

**Dr. G.S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Professor & Head

  
PRINCIPAL

Bapuji Institute of Engineering & Technology  
**Dr. H.B. Aravind**  
M.E., DAVANGERE, FIE., MISTE., FIE  
Principal

External Viva-voce

Name of the Examiners

1. Dr. Prakash K M
2. MALLENDRACHARI

Signature with Date

  
M. Mallendrachari

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the project work entitled "**FINGERPRINT DOOR LOCK SYSTEM USING ARDUINO UNO**" carried out by Mr. NAVEENKUMAR KALAL , USN 4BD19EC070, Mr. BHUMIKA N , USN 4BD20EC402, Mr. HAMSAVENI P , USN 4BD19EC034, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University**, Belgaum during the academic year **2021-22**. 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.

**Bhagya Shanthakumar**  
M.Tech, MISTE, MIETE.  
Project Guide

28-7-22

**Dr. G.S. Sunitha**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Professor & Head

**PRINCIPAL**  
Bapuji Institute of Engineering & Technology  
DAVANGERE.

**Dr. H.B. Aravind**  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

External Viva-voce

**Name of the Examiners**

1. Dr. Keela G.H.
2. Ganesh K.

**Signature with Date**

Keela G.H. 25/7/22  
Ganesh K. 25/7/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**




**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the project work entitled "**FACE RECOGNITION DOOR LOCK SYSTEM USING RASPERRY PI**" carried out by Mr. ABHISHEK M TOTAD, USN 4BD19EC002, Mr. ASHISH V, USN 4BD18EC014, Mr. AKASH B S, USN 4BD19EC004, Mr. VEERESH NA SHETTER, USN 4BD19EC118, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University**, Belagavi during the academic year **2021-22**. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

  
Mrs. POORNIMA G N  
M.Tech  
Project Guide

  
PRINCIPAL  
Bapuji Institute of Engineering & Technology  
Dr. H.B. Aravindere,  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

  
Dr. G.S. Sunitha  
M.Tech. (DEAC), Ph.D., MISTE., FIEE, FIEE, FIEE  
Professor & Head

**External Viva-voce**

**Name of the Examiners**

**Signature with Date**

1. Ganesh K.
2. Dr. Leela G.H.

 25/7/2022  
 25/7/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA-577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

Certified that the project work entitled "*Alcohol Sensing Alert with Engine Locking system*" carried out by Ms. BHAGYA S R, USN 4BD19EC016, Ms. BHAVANA U, USN 4BD19EC018, Mr. DARSHAN M, USN 4BD19EC026, Mr. RAHUL C , USN 4BD19EC082, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belagavi** during the academic year **2021-22**. 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.

*Mahendrachari*

Mr. Mahendrachari  
M.E., MISTE, MIETE  
Project Guide

*Aravind*  
PRINCIPAL

Bapuji Institute of Engineering & Technology  
DAVANGERE.

Dr. H. B. Aravind  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

*S. Sunitha*  
29.07.22

Dr. G.S. Sunitha  
M.Tech. (DEAC), Ph.D., MISTE, FIETE, FIE  
Program coordinator

External Viva-voce

Name of the Examiners

1. Dr. Geela G.H. ....
2. Ganesh K. ....

Signature with Date

*Geela G.H.* 25/7/22  
*Ganesh K.*

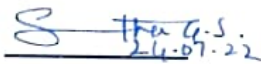
**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA - 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

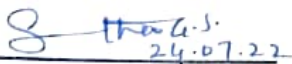
Certified that the project work entitled **AUTOMATIC FAN SPEED CONTROLLER** carried out by **Mr.PAVAN KUMAR P M, USN 4BD19EC076, Mr.PRAJWAL REDDY S, USN 4BD19EC078, Mr.SHRISHAIL, USN 4BD20EC414**, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by **Visvesvaraya Technological University, Belgaum** during the academic year **2021-22**. 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.

  
24-07-22

**Dr. G.S. Sunitha**

M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE

**Project Guide**

  
24-07-22

**Dr. G.S. Sunitha**

M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE

**Professor & Head**

  
PRINCIPAL

**Dr. H.B. Aravind**  
M.E., (Eng. Engg.) Ph.D., FIE., MISTE., FIEE

**Principal**

**External Viva-voce**

**Name of the Examiners**

1. Ganesh K.
2. Dr. Leela G.H

**Signature with Date**

  
25/7/22  
  
25/7/22

**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DAVANGERE, KARNATAKA – 577004**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Certificate**

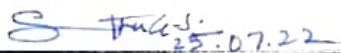
Certified that the project work entitled "*Density based traffic control system using arduino and IR sensors*" carried out by Ms. ANJALI T G, USN 4BD19EC010, Ms. DIVYA A, USN 4BD19EC030, Mr. HARISH T, USN 4BD19EC036, Mr. HARSHA T V, USN 4BD19EC038, bonafide students of this institution in partial fulfillment for the award of degree of **Bachelor of Engineering in Electronics & Communication** by Visvesvaraya Technological University, Belagavi during the academic year **2021-22**. 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.

  
**RADHIKAPRIYA.Y. R**

M.Tech., MISTE  
Project Guide



  
**PRINCIPAL**  
Bapuji Institute of Engineering & Technology

**Dr. H. B. ARAVIND**  
M.E., (Env. Engg.) Ph.D., FIE., MISTE., FIEE  
Principal

  
**Dr. G.S. SUNITHA**  
M.Tech. (DEAC), Ph.D., MISTE, FIETE., FIE  
Program Coordinator

External Viva-voce

Name of the Examiners

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

Signature with Date

  
.....  
  
.....