



## K S Institute of Technology


### Electronics and Communication Engineering Department Department of Electronics and Communication Engg. 8th Semester Project Work Phase-2 (18ECP83)

#### 3-A SECTION

SI No	Team No.	USN	Name	Project Title	Guide
1	1	1KS20EC002	ADITI DUBEY	Integrated Agriculture System	Mr. Santosh Kumar B R
2		1KS20EC030	GANDHAMANI CM		
3		1KS20EC035	HARSHITHA J		
4		1KS20EC057	MEGHASHREE M		
5	2	1KS20EC010	BHAVITHA .B	Automatic Accident Insurance claim using GSM	Dr. Rekha N
6		1KS20EC023	DHAMINI .J		
7		1KS20EC025	DIVYA.N		
8		1KS20EC038	JAMPULA CHAITHANYA KRISHNA		
9	3	1KS19EC026	ERAM FATHIMA	Smart wireless emergency pendent	Dr. Dinesh Kumar
10		1KS20EC003	AFEEFA SHARIEFF		
11		1KS20EC054	MADIHA		
12	4	1KS20EC034	HARSHITHA B L	Tech feed: Intelligent feeding for furry friends	Dr. Devika B
13		1KS20EC036	HARSHITHA N		
14		1KS20EC042	K JEEVITHA		
15		1KS20EC046	KAVYA S M		
16	5	1KS20EC024	DHRUVA KUMAR S	Fruits and vegetables quality monitoring using IOT and Automatic billing	Mrs. Ramya K R
17		1KS20EC028	GAGAN HC		
18		1KS20EC033	HARSHITH GOWDA AR		
19		1KS20EC041	JAYANTH H		
20	6	1KS20EC029	GAGANA B S	Smart blind shopping carrier	Mrs. Sangeetha V
21		1KS20EC037	INCHARA P		
22		1KS20EC045	KAVANA G S		
23	7	1KS20EC043	K. M AMSHUMANTH	Smart Glasses for individuals with hearing impairment	Dr. B Sudarshan
24		1KS20EC049	KIRAN V NARAYN		
25		1KS20EC051	KUMAR. K. G		
26		1KS20EC058	MOHAN KRISHNA K		
27	8	1KS20EC006	AKASH.M	Visitors guide using Raspberry PI	Mrs. Bhargavi ananth
28		1KS20EC004	AJAY B.G		
29		1KS20EC021	DARSHAN KUMAR S		

30		1KS20EC012	CHAITHANYA REDDY		
31	9	1KS20EC016	CHAYA S	Solar Powered Wireless Lake cleaning Robot	Mrs. Vishalini Divakar
32		1KS20EC027	G BHAVANA PRIYADARSHINI		
33		1KS20EC031	GOMITHA R C		
34		1KS20EC032	HARINI K		
35	10	1KS20EC026	ESHWAR BIRADAR	Design of low cost water purifier	Dr. P N Sudha
36		1KS20EC048	KIRAN DEV D		
37		1KS20EC052	KUSUMA VR		
38		1KS20EC055	MAHESH BIRADAR		
39	11	1KS20EC001	ABHISHEK J	Wheel chair with fall detection system	Mrs. Anitha
40		1KS20EC017	CHETHAN G		
41		1KS20EC018	CHETHAN KUMAR J		
42		1KS20EC019	CHETHAN KUMAR T		
43	12	1KS19EC034	HIMA SWETHA S	Bionic ARM	Mr. Praveen A
44		1KS20EC008	B S HEMASHREE		
45		1KS20EC011	BHUVANESHWARI K		
46		1KS20EC013	CHAITHRA K		
47	13	1KS20EC014	C. SAI SRUJITHA	Laser Engraving	Mr. Christo J
48		1KS20EC047	KEERTHANA B S		
49		1KS20EC050	KODIDELA PRATHIMA		
50		1KS20EC053	M. ARCHANA		
51	14	1KS20EC015	CHALLAGUNNLA UMADEVI	IOT based prepaid Electric Vehicle charging	Mr. Saleem S T
52		1KS20EC039	JAMUNA S G		
53		1KS20EC040	JANHAVI R		
54		1KS20EC056	MANASWINI K M		
55	15	1KS20EC009	BHARATH M	Pick and place Robot for industrial applications	Dr. B Sudarshan
56		1KS20EC020	DARSHAN K		
57		1KS20EC070	PRIYANKA K		
58		1KS20EC069	PRIYANKA.H C		

  
**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Eng  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

  
**PRINCIPAL**  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109.





**K S Institute of Technology**  
**Electronics and Communication Engineering Department**  
**Department of Electronics and Communication Engg.**  
**8th Semester Project Phase-2 (18ECP83)**

**3-B SECTION**

SI No	Team No.	USN	Name	Project Title	Guide
59	16	1KS20EC083	S ARUN KUMAR	Campus cleaner BOT	Mrs. Sangeetha V
60		1KS20EC079	RAMESHWAR		
61		1KS20EC089	SANJANA G		
62		1KS20EC091	SANJANA T GADIKAR		
63	17	1KS20EC060	NALLANI GOWTHAMI	Railway Management System	Mrs. Suma Santhosh
64		1KS20EC111	VAISHNAVI V H		
65		1KS20EC113	VIJAYALAKSHMI K		
66		1KS20EC117	YASHILAA S		
67	18	1KS20EC077	RAKSHITH R	RFID based attendance system	Dr. Dinesh Kumar
68		1KS20EC093	SHARATH M		
69		1KS20EC098	SHREYAS P S RAO		
70		1KS20EC108	UDAY. C H		
71	19	1KS20EC062	NEHA NAGARAJ AIRANI	Voice controlled Elivator	Mrs. Vishalini Divakar
72		1KS20EC080	RAMYA T		
73		1KS20EC112	VARSHA N		
74	20	1KS20EC061	NEHA CR	Accident Prevention system for Railways	Mr. Santosh Kumar B R
75		1KS20EC065	PAVANI TS		
76		1KS20EC071	PRIYANKA M		
77		1KS20EC072	PUSHPA DT		
78	21	1KS20EC096	SHREYA H PADMANABHA	Smart bus management system using GSM and RFID Technology	Mr. Saleem S T
79		1KS20EC099	SHWETA DEEPAK		
80		1KS20EC102	SUMANA N		
81		1KS20EC110	VAISHNAVI A		
82	22	1KS20EC084	SACHIN N M	Authenticated access control for vehicle ignition system	Mrs. Ramya K R
83		1KS20EC087	SANDEEP Y H		
84		1KS20EC109	UJJWAL NAIDU		
85		1KS20EC114	VINAY S P		
86	23	1KS20EC063	VASANTH KUMAR	Vehicle fuel theft detection & monitoring system using IOT	Mr. Sathish Kumar
87		1KS20EC064	PAVAN C		
88		1KS20EC067	PRAVEEN DB		
89		1KS20EC107	T.GIRISH CHOWDARY		
90	24	1KS20EC073	RAHUL KRISHNAN V	Smart Real time drinage Monitoring system using IOT	Dr. Sudha P N
91		1KS20EC103	SUMUKHA S		
92		1KS20EC105	TARUN PRASANNA		

93		1KS20EC106	TEJAS N REDDY		
94	25	1KS20EC066	PRADHYUMNA S KASHYAP	Smart car Parking System	Dr. Devika B
95		1KS20EC075	RAJATH K ACHAR		
96		1KS20EC116	VINEETH M S		
97		1KS20EC118	YASHWANTH Y		
98	26	1KS20EC074	RAHUL R	Brain Computer Interface (BCI) to achieve Aided Communication	Mr. Christo Jain
99		1KS20EC078	RAKSHITHA A		
100		1KS20EC085	SADHANA SRINIVAS		
101		1KS20EC115	VINAY SAGAR V ALUR		
102	27	1KS20EC076	RAKSHITH.N.M	Library Management Robot	Mrs. Bhargavi ananth
103		1KS20EC082	ROHITH A K		
104		1KS21EC401	SUDEEP V		
105	28	1KS20EC059	N SHREYA	Wi - Fi based industrial protection system	Dr. Rekha N
106		1KS20EC068	PREMA G		
107		1KS20EC101	SONIKA.R		
108		1KS20EC104	SURAKSHA N		
109	29	1KS20EC092	SHAKTHI ANBAZHAGAN M	Pre paid Electricity energy meter and theft detection	Mr. Praveen A
110		1KS20EC094	SHASHANK S		
111		1KS20EC095	SHIVAREDDY B A		
112		1KS20EC097	SHREYAS M S		

**HOD**  
**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

**PRINCIPAL**  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109.





KAMMAVARI SANGHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS, EC & MECH])

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Department of Electronics and Communication Engineering

## CERTIFICATE


This is to certify that the project work entitled

**"E-COMMERCE PLATFORM FOR FARMERS"**

is a work carried out by

Aditi Dubey	:	IKS20EC002
Gandhamani CM	:	IKS20EC030
Harshitha J	:	IKS20EC035
Meghashree M	:	IKS20EC057

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

  
Signature of Guide

  
Signature of HOD

  
Signature of Principal

**HEAD OF THE DEPARTMENT**

Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.


**PRINCIPAL**

**K.S. INSTITUTE OF TECHNOLOGY**  
BENGALURU - 560 109.

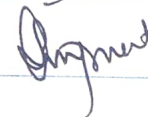
Name of Examiners

Signature with Date

1. Dr. P.N. Sudeha

 27/5/24

2. Dr. Supreeth H.S.G.

 27.05.24



Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

No. 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109

Tel : +91-80-28435722/24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in



Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled

**“Automatic Accident Insurance claim”**  
 is a work carried out by

Bhavitha B	:	IKS20EC010
Dhamini J	:	IKS20EC023
Divya N	:	IKS20EC025
Jampula Chaithanya Krishna	:	IKS20EC038

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

Signature of Principal  
 PRINCIPAL

**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_





KAMMAVARI SANGHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to VTU, Belagavi, Karnataka. Accredited by NAAC A NBA (IS-EC & MECH))

**KSIT**  
K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

**"Smart Wireless Emergency Pendant"**

is a work carried out by

Eram Fathima	:	1KS19EC026
Afeefa ShariEFF	:	1KS20EC003
Madha	:	1KS20EC054

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

**HEAD OF THE DEPARTMENT**

Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

Signature of Principal

PRINCIPAL

**K.S. INSTITUTE OF TECHNOLOGY**  
- BENGALURU - 560 109. -

EXTERNAL VIVA:

Name of Examiners

Signature with Date

1. Dr. P.N Indha

2. Dr. Suresh H.S.G

Pr 27/5/24

Shyams 27.05.24



**KSIT**  
KAMMAVARI SANGHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka, Accredited by NAAC & HBA [C.R.E.C & MECH] )

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

**"TECH-FEED: INTELLIGENT FEEDING FOR HURRY FRIENDS"**

is a work carried out by

Harshitha, B.I	:	IKS20EC034
Harshitha, N	:	IKS20EC036
K. Jeevitha	:	IKS20EC042
Kavya, S M	:	IKS20EC046

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.  
EXTERNAL VIVA:

Signature of Principal

**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**

Name of Examiners

Signature with Date

1. Dr. P.N. Srinha

  
27/5/24

2. Dr. Supreeti H S G.

  
27.05.24





KAMMAVARI SANGHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & MECH] )

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

**“Fruits and Vegetables Quality Monitoring Using IoT”**


is a work carried out by

Dhruva Kumar S	:	1KS20EC024
Gagan H C	:	1KS20EC028
Harshith Gowda A R	:	1KS20EC033
Jayanth H	:	1KS20EC041

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

  
Signature of Guide

  
Signature of HOD

  
Signature of Principal  
**PRINCIPAL**


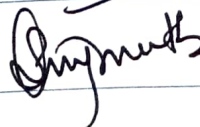
**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

**K.S. INSTITUTE OF TECHNOLOGY**  
BENGALURU - 560 109.

Name of Examiners

1. Dr. P-N. Sudha
2. Dr. Supreeth

Signature with Date

 27/5/24  
 27.05.24



KAMMAVARI SANGHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [C, EC & MECH])

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

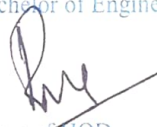
**"SMART BLIND SHOPPING CARRIER"**

is a work carried out by

Gagana B S	:	1KS20EC029
Inchara P	:	1KS20EC037
Kavana G S	:	1KS20EC045

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

  
Signature of Guide

  
Signature of HOD

  
Signature of Principal

**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
BENGALURU - 560 109.

EXTERNAL VIVA:

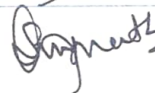
Name of Examiners

Signature with Date

1. Dr. P-N. Indha

 27/5/24

2. Dr. Supreet H.S.G.

 27.05.24





# K. S. INSTITUTE OF TECHNOLOGY

( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS, EC & MECH] )

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

**“Smart Glasses For Individuals with Hearing Impairment”**  
is a work carried out by

K M Amshumanth	1KS20EC043
Kiran V Narayan	1KS20EC049
Kumar K G	1KS20EC051
Mohan Krishna K	1KS20EC058

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfillment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements with respect to the Project Work prescribed for a Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD  
**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560109

Signature of Principal  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
BENGALURU - 560 109.

Name of Examiners

1. Dr. P.N. Sudha
2. Dr. Supree H S G.

Signature with Date

27/5/24

27.05.24



**KSIT**  
K.S. INSTITUTE OF TECHNOLOGY

Kammavari Sangham (R) - 1952

# K.S. INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

No 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109

Tel : +91-80-28435722/24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in



Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

**“Visitors Robotic Guide Using Raspberry PI”**  
is a work carried out by

Chaitanya K	:	1KS20EC012
Darshan Kumar S	:	1KS20EC021
Ajay B.G	:	1KS20EC004
Akash M	:	1KS20EC006

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

Signature of Principal

**HEAD OF THE DEPARTMENT**

Dept. of Electronics & Communication Engg

K.S. Institute of Technology

Bengaluru - 560 109.

**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**

Name of Examiners

Signature with Date

1. Dr. P.N. Sudha

2. Dr. Supreeth H.S.G.

  
27/5/24  
27.05.24





KAMMAVARI SANGHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS, EC & MECH] )

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

**KSIT**  
K. S. INSTITUTE OF TECHNOLOGY

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

**SOLAR POWERED LAKE CLEANING ROBOT**  
is a work carried out by

Chaya S	:	1KS20EC016
G Bhavana Priyadarshini	:	1KS20EC027
Gomitha R C	:	1KS20EC031
Harini K	:	1KS20EC032

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

Signature of Principal  
PRINCIPAL

**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K. S. INSTITUTE OF TECHNOLOGY  
Bengaluru - 560 109.

**K.S. INSTITUTE OF TECHNOLOGY**  
BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Supreeth H.S.G.

2. D. B. Subashan

Supreeth 28.05.24

Subashan 28/5/24



Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU Belagavi & Approved by AICTE, New Delhi)

No. 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560 109

Tel : +91-80-28435722/24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled

**“Low Cost Water Purifier”**

Is a work carried out by

Eshwar Biradar : IKS20EC026  
Kiran Dev D : IKS20EC048  
Kusuma V R : IKS20EC052  
Mahesh Biradar : IKS20EC055

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

Signature of Principal

**PRINCIPAL**  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Supreeth H.S.G.

Supreeth 28.05.24

2. Dr. B. Subbarao

B 28/5/24





# K.S. INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

No. 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109

Tel: +91-80-28435722/24, Fax: +91-80-28435723, Email: principal.ksit@gmail.com, Website: www.ksit.ac.in



## Department of Electronics and Communication Engineering

### CERTIFICATE

This is to certify that the project work entitled

**“Hand Gesture Wheel Chair Control with Fall Detect System and Location Alert”**

is a work carried out by

Abhishek J	:	1KS20EC001
Chethan G	:	1KS20EC017
Chethan Kumar J	:	1KS20EC018
Chethan Kumar T	:	1KS20EC019

Is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

*Amish*  
15/5/24  
Signature of Guide

*[Signature]*  
Signature of HOD

*[Signature]*  
Signature of Principal  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

EXTERNAL VIVA:

Name of Examiners

1. Dr. Supreeth H.S.G

2. Dr. B. Sudarshan

*[Signature]* 28.05.24  
*[Signature]* 28/5/24

HEAD OF THE DEPARTMENT  
Dept. of Electronics & Communication  
K.S. Institute of Technology,  
Bengaluru - 560 109

Signature with Date



KAMMAVARI SANGHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS, EC & MECH] )

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

“Bionic Arm”

is a work carried out by

Hima Swetha S	:	IKS19EC034
B S Hemashree	:	IKS20EC008
Bhuvaneshwari K	:	IKS20EC011
Chaithra K	:	IKS20EC013

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

**HEAD OF THE DEPARTMENT**

Dept. of Electronics & Communication Engg.

K.S. Institute of Technology

Bengaluru - 560 109.

EXTERNAL-VTU

Signature of Principal

**PRINCIPAL**

**K.S. INSTITUTE OF TECHNOLOGY**

BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Sugreetha H.S.G.

Dr. Sugreetha H.S.G. 28.05.24

2. Dr. B. Sudarshan

Dr. B. Sudarshan 28/5/24





Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled

**LASER ENGRAVING**

is a work carried out by

C SAI SRUJITHA	:	1KS20EC014
KEERTHANA BS	:	1KS20EC047
K PRATHIMA	:	1KS20EC050
M ARCHANA	:	1KS20EC053

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

Signature of Principal

**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

**K.S. INSTITUTE OF TECHNOLOGY**  
BENGALURU - 560 109.

Name of Examiners

1. Dr. Sugreeth H.S.G.
2. Dr. B. Sudeeshan

Signature with Date

1. [Signature] 28.05.24
2. [Signature] 28/5/24



Kammavari Sangham (R) - 1952  
**K.S.INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109

Tel: +91-80-28435722/24 Fax: +91-80-28435723 Email: principal.ksit@gmail.com Website: www.ksit.ac.in



Department of Electronics and Communication Engineering

**CERTIFICATE**


This is to certify that the project work entitled

**"IOT Based Prepaid Electric Vehicle Charging Station"**  
 is a work carried out by

C Umadevi	:1KS20EC015
Jamuna S G	:1KS20EC039
Janhavi R	:1KS20EC040
Manaswini K M	:1KS20EC056

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

  
 Signature of Guide

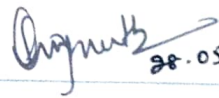
  
 Signature of HOD  
**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

  
 Signature of Principal  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Supreeth H.S.G
2. Dr B Subashan

  
 28.05.24  
28/5/24





**KSIT**  
K.S. INSTITUTE OF TECHNOLOGY

Kammavari Sangham (R) - 1952

# K.S. INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109

Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

**“Pick And Place Robot for Industrial Applications”**

is a work carried out by

Bharath M	:	1KS20EC009
Darshan K	:	1KS20EC020
Priyanka H C	:	1KS20EC069
Priyanka K	:	1KS20EC070

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

Signature of Principal

**HEAD OF THE DEPARTMENT**

Dept. of Electronics & Communication Engg

Name of Examiner Signature With Date

**PRINCIPAL**

**K.S. INSTITUTE OF TECHNOLOGY**

**BENGALURU - 560 109.**

1. Dr. Sugreeth H.S.G

Signature 28.05.24

2. Dr. B. Subraman

Signature 28/5/24



Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)  
 No. 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109  
 Tel : +91-80-28435722/24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in



Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled

**“CAMPUS CLEANER BOT”**


is a work carried out by

RAMESHWAR	1KS20EC079
S ARUN KUMAR	1KS20EC083
SANJANA G	1KS20EC089
SANJANA T GADIKAR	1KS20EC091

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

  
 Signature of Guide

  
 Signature of HOD  
**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

  
 Signature of Principal  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Mr. Bhaskar B

Principal

2. Dr. B. Scharba

MA 29/5/24





Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

No. 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109

Tel: +91-80-28435722/24 Fax: +91-80-28435723 Email: principal.ksit@gmail.com Website: www.ksit.ac.in



Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled

**“RAILWAY MANAGEMENT SYSTEM”**

is a work carried out by

NALLANI GOWTHAMI	:	IKS20EC060
VAISHNAVI V H	:	IKS20EC111
VIJAYALAKSHMI K	:	IKS20EC113
YASHILAA S	:	IKS20EC117

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfilment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

**HEAD OF THE DEPARTMENT**

Dept. of Electronics & Communication Engg.

K.S. Institute of Technology

Bengaluru - 560 109.

Signature of Principal

**PRINCIPAL**

**K.S. INSTITUTE OF TECHNOLOGY**

**BENGALURU - 560 109.**

Name of Examiners

Signature with Date

1. Dr. Bhaskar B

29/5/24

2. Dr. B. Subraman

29/5/24



Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)  
No. 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109  
Tel: +91-80-28435722/24 Fax: +91-80-28435723 Email: principal.ksit@gmail.com Website: www.ksit.ac.in

Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled  
"RFID Based Attendance Management System"  
is a work carried out by

Rakshith R : IKS20EC077  
Sharath M : IKS20EC093  
Shreyas P S Rao : IKS20EC098  
Uday C H : IKS20EC108

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

**HEAD OF THE DEPARTMENT**

Dept. of Electronics & Communication Engg.

K.S. Institute of Technology

Bengaluru - 560 109

Signature of Principal

**PRINCIPAL**

**K.S. INSTITUTE OF TECHNOLOGY**

BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Bhaskar B

  
29/5/24

2. Dr. B. Sridharan

  
29/5/24





KAMMAVARI SANGHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA (CS, EC & MECH) )

**KSIT**  
KARNATAKA STATE INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

### VOICE CONTROLLED ELEVATOR

Is a work carried out by

Neha Nagraj Airani	(1KS20EC062)
Ramya T	(1KS20EC080)
Varsha N	(1KS20EC112)

Is a bonafide work carried out at K.S Institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication Engineering from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

Signature of Principal  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**

EXTERNAL VIVA

Name of the Examiners

- Dr. Bhanu Sankar
- Dr. B. Siddhanth

Signature with date

29/5/24



**KSIT**  
K.S. INSTITUTE OF TECHNOLOGY

Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109

Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in



Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled

**“ACCIDENT PREVENTION SYSTEM FOR RAILWAYS”**

is a work carried out by

Neha CR	:	1KS20EC061
Pavani TS	:	1KS20EC065
Priyanka M	:	1KS20EC071
Pushpa DT	:	1KS20EC072

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

Signature of Principal

**EXTERNAL VIVA:**

Name of Examiners

Signature with Date

1. Dr. Banuskan B

29/5/24

2. Dr. B. Subrahman

29/5/24





Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled

**“OPTIMIZING TRANSPORTATION FOR SMART BUS MANAGEMENT SYSTEM”**

is a work carried out by

SHREYA H	1KS20EC096
SHWETA DEEPAK	1KS20EC099
SUMANA N	1KS20EC102
VAISHNAVI A	1KS20EC110

is a bonafide work carried out at K.S. institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

*SST*  
Signature of Guide

*[Signature]*  
Signature of HOD

*[Signature]*  
Signature of Principal

**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

**PRINCIPAL**  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Bhas Karas  
 2. Dr. B. Siddhan

[Signature]  
29/5/24



Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)  
 No. 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109  
 Tel: +91-80-28435722 / 24 Fax: +91-80-28435723 Email: principal.ksit@gmail.com Website: www.ksit.ac.in



Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled  
 “Authenticated Access Control for Vehicle Ignition System by Driver’s Licence and  
 Fingerprint Technology”

is a work carried out by

Sachin N M : 1KS20EC084  
 Sandeep Y H : 1KS20EC087  
 Ujjwal Naidu : 1KS20EC109  
 Vinay S P : 1KS20EC114

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

Signature of Principal

**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Banushankar B

2. Dr. B. Sudarshan

29/5/24





Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)  
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109  
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Department of Electronics and Communication Engineering  
**CERTIFICATE**

This is to certify that the project work entitled  
“Vehicle Fuel Theft Detection and Monitoring System”  
is a work carried out by

P. Vasanth Kumar Reddy : 1KS20EC063  
Pavan C : 1KS20EC064  
Praveen DB : 1KS20EC067  
T. Girish Chowdary : 1KS20EC107

is a Bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.



Signature of Guide



Signature of HOD



Signature of Principal

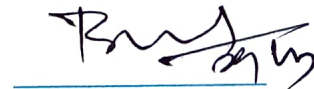
**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

**PRINCIPAL**  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Bhuskar B



2. Dr. B. Sridharan

Bvb 29/5/24



Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)  
No. 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109  
Tel : +91-80-28435722/24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Department of Electronics and Communication Engineering  
**CERTIFICATE**

This is to certify that the project work entitled  
"Smart Real Time Drainage Monitoring System"  
Is a work carried out by

Rahul Krishnan V : IKS20EC073  
Sumukha S : IKS20EC103  
Tarun Prasanna : IKS20EC105  
Tejas N Reddy : IKS20EC106

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.  
EXTERNAL VIVA

Signature of Principal

**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Bhaskar B

Ram  
30/5/24

2. Dr. B. Subban

MS  
30/5/24





Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)  
 No. 14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109  
 Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in



Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled

**"SMART CAR PARKING SYSTEM"**

is a work carried out by

Pradhyumna S : 1KS20EC066  
 Kashyap : 1KS20EC075  
 Rajath K Achar : 1KS20EC116  
 Vineeth MS : 1KS20EC118  
 Yashwanth Y : 1KS20EC118

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

Signature of Guide

**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109

Signature of Principal

**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109.

Name of Examiners

1. Dr. Bhaskar B
2. Dr. B. Subhan

Signature with Date

[Signature] 30/5/24  
[Signature] 30/5/24



Kammavari Sangham (R) - 1952  
**K.S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)  
 No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109  
 Tel : +91-80-28435722/24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in



Department of Electronics and Communication Engineering

**CERTIFICATE**

This is to certify that the project work entitled

**"Brain-Computer Interface to Achieve Aided Communication"** is a work carried out by

Rahul R	:	1KS20EC74
Rakshitha A	:	1KS20EC078
Sadhana Srinivas	:	1KS20EC085
Vinay Sagar V Alur	:	1KS20EC115

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

  
 Signature of Guide


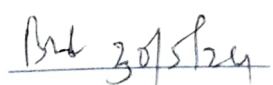
  
 Signature of HOD  
**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

  
 Signature of  
 Principal  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109.

EXTERNAL VIVA:

Name of Examiner Signature with Date

- Dr. Anurag B
- Dr B Sadashan

  
30/5/24  
  
30/5/24





**K S I T**  
K.S. INSTITUTE OF TECHNOLOGY

Kammavari Sangham (R) - 1952

# K.S. INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109

Tel : +91-80-26435722/24 Fax : +91-80-26435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

**“Library Management Robot”**

Is a work carried out by

Rakshith NM	:	IKS20EC076
Rohith AK	:	IKS20EC082
Sudeep V	:	IKS21EC401

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD  
**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
BANGALURU - 560109.

Signature of Principal

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BANGALURU - 560109.

Name of Examiners

- Dr. Bhaskar
- Dr. B. Subashan

Signature with Date

30/5/24

30/5/24



**KSIT**  
K.S. INSTITUTE OF TECHNOLOGY

**KAMMAVARI SANGHAM (R) - 1952**

# **K. S. INSTITUTE OF TECHNOLOGY**

( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & MECH] )

**#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109**

**Tel: 080-28435722 / 24 Web : www.ksit.edu.in**

Department of Electronics and Communication Engineering

## **CERTIFICATE**

This is to certify that the project work entitled

**“Wi-Fi Based Industry Protection System”**

is a work carried out by

N SHREYA	:	1KS20EC059
PREMA G	:	1KS20EC068
SONIKA R	:	1KS20EC101
SURAKSHA N	:	1KS20EC104

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfillment for the award of Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD  
**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.  
 EXTERNAL VIVA:

Signature of Principal  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**

Name of Examiners

Signature with Date

- Dr. Bhaskar
- Dr. B. Subraman

[Signature]  
 30/5/24





KAMMAVARI SANGHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS, EC & MECH])

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Department of Electronics and Communication Engineering

## CERTIFICATE

This is to certify that the project work entitled

**“Prepaid Electricity Energy Meter And Tampering Detection.”**

is a work carried out by

Shakthi Anbazhagan M	:	IKS20EC092
Shashank S	:	IKS20EC094
Shiva Reddy B A	:	IKS20EC095
Shreyas M S	:	IKS20EC097

is a bonafide work carried out at K.S. Institute of Technology, Bangalore in partial fulfilment for the award of a Bachelor of Engineering Degree in Electronics and Communication from Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections and suggestions indicated during the internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for a Bachelor of Engineering Degree.

Signature of Guide

Signature of HOD

Signature of Principal

**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

**PRINCIPAL**  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

Name of Examiners

Signature with Date

1. Dr. Brauskam B

  
30/5/24

2. Dr. B. Subraman

  
30/5/24