

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE 2

ON

A LOW-COST THERAPEUTIC EXERCISE MACHINE FOR MECHANIZED KNEE REHABILITATION

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

MOHAMMED JUNAID M GUDDAD

1KG19EC061

ATHISH NAVEEN

1KG20EC005

KAKARLA JASWANTH CHOWDARY

1KG20EC015

TEJASHREE M

1KG20EC044

Under the Guidance

of

Dr. K. SENTHIL BABU

Professor & Head

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24





K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **A LOW-COST THERAPEUTIC EXERCISE MACHINE FOR MECHANIZED KNEE REHABILITATION** is carried out by **MOHAMMED JUNAID M GUDDAD (1KG19EC061), ATHISH NAVEEN (1KG20EC005), KAKARLA JASWANTH CHOWDARY (1KG20EC015), TEJASHREE M (1KG20EC044)**, bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-II report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide & Head of the Department

Dr. K. Senthil Babu
Professor & Head
Dept. of ECE

Professor & Head

Dept. of Electronics & Communication Engineering
K.S. School of Engineering & Management
Bangalore - 560 109

Name of the Examiners

1 *Ravikiran B.A*

2 *Jyoti Kamal mhanne*

Principal

Dr. K. Rama Narasimha
Principal/Director
KSSEM

Dr. K. RAMA NARASIMHA
Principal/Director

K S School of Engineering and Management
Bangaluru - 560 109

Signature with Date

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29/5/24



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE II

ON

**IDENTIFICATION OF RIGHT AND LEFT VENTRICULAR HYPERTROPHY FROM
ECG USING MACHINE LEARNING**

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

AKSHATHA S

1KG20EC004

K GOWTHAM

1KG20EC014

SADHANA H D

1KG20EC038

Under the Guidance

of

Dr. Renuka V Tali

Assistant Professor,

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24



K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **Identification of Right and Left Ventricular Hypertrophy from ECG using Machine Learning** are carried out by Akshatha S (1KG20EC004), K Gowtham (1KG20EC014), Sadhana H D (1KG20EC038), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-II report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide



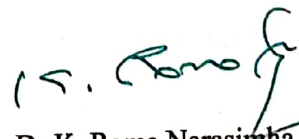
Dr. Renuka V Tali
Asst. Professor
Dept. of ECE

Head of the Department



Dr. K. Senthil Babu
Professor & Head
Dept. of ECE
Professor & Head
Dept. of Electronics & Communication Engineering
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Principal



Dr K. Rama Narasimha
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Name of the Examiners

1 RAVIKIRAN B.A.

2 purna karnat mhanan

Signature with Date

B Anu 29/5/24

Hec/hk 29/5/24

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE 2

ON

PROTOTYPE FOR SURFACE WASTE COLLECTION SYSTEM IN WATER BODIES

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

G BHARATH KUMAR

1KG20EC013

M B HEMANTH

1KG20EC019

P SAI KETHAN CHOWDARY

1KG20EC032

R PARTHIBAN

1KG20EC034

Under the Guidance

of

Dr. MANU D K

Associate Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24





K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


CERTIFICATE

This is to certify that the Project work entitled **Prototype for surface waste collection system in water bodies** are carried out by G Bharath Kumar (1KG20EC013), M B Hemanth (1KG20EC019), P Sai Kethan Chowdary (1KG20EC032), R Parthiban (1KG20EC034), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-II report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.


Internal Guide


Dr. Manu D K
Assoc. Professor
Dept. of ECE

Head of the Department


Dr. K. Senthil Babu
Professor & Head
Dept. of ECE

Professor & Head
Dept. of Electronics & Communication Engineering
K.S. School of Engineering & Management
Bangalore - 560 109


Principal



Dr. K. Rama Narasimha
Principal/Director
KSSEM
Dr. K. RAMA NARASIMHA
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Bangalore - 560 109

Name of the Examiners

1. Ravikiran B.A.
2. Jyoti Kamat bhama

Signature with Date


29/5/24


29/5/24

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE II

ON

DETECTION OF AGE RELELATED MACULAR DEGENERATION WITH AI

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

DARURU DHANYA DEEPIKA

1KG20EC008

KISHORE KUMAR M

1KG20EC016

MANNAM VANDANA

1KG20EC023

N S BANU PRASAD

1KG20EC024

Under the Guidance

Of

Dr. Kishore M

Associate Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24



K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

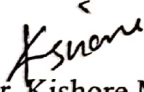
CERTIFICATE

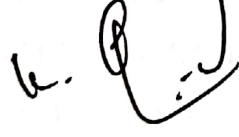
This is to certify that the Project work entitled **Detection Of Age Related Macular Degeneration With AI** are carried out by Daruru Dhanya Deepika (1KG20EC008), Kishore Kumar M (1KG20EC016), Mannam Vandana (1KG20EC023), N S Banu prasad (1KG20EC024), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-I report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

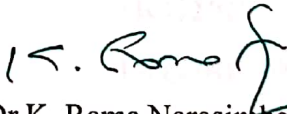
Internal Guide

Head of the Department

Principal


Dr. Kishore M
Assoc. Professor
Dept. of ECE


Dr. K. Senthil Babu
Professor & Head
Dept. of ECE

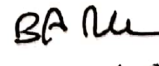

Dr K. Rama Narasimha
Principal/Director
KSSEM

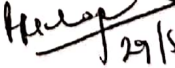
Professor & Head
Dept. of Electronics & Communication Engineering
K.S. School of Engineering & Management
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Dr. K. RAMA NARASIMHA
Principal/Director
K.S. School of Engineering and Management
Bangalore - 560 109
Signature With Date

Name of the Examiners

- 1 Ravikiran BA
- 2 Purna Hanat mharma


29/5/24


29/5/24



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE 2

ON

Automated Attendance Management System using Machine Learning

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

M LOKESH

1KG20EC020

NISHANTH NARAYAN

1KG20EC028

POOJA R

1KG20EC031

Under the Guidance

of

Prof. DILEEP J

Assistant Professor,

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24





K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **Automated Attendance Management System using Machine Learning** is carried out by **M Lokesh (1KG20EC020)**, **Nishanth Narayan (1KG20EC028)**, **Pooja R (1KG20EC031)**, bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-II report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide

Prof. Dileep J
Asst. Professor
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Head of the Department

Dr. K. Senthil Babu
Professor & Head
Dept. of ECE

Principal

Dr. K. Rama Narasimha
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Principal/Director

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Bengaluru - 560 109

Signature with Date

30/6/24

Name of the Examiners

1 **Dr. K. Senthil Babu**

2 **Pooja Kamat Narayan**

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE 2

ON

IoT Based Gas Monitoring & Alerting System

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

KOUSHIK 1KG20EC017

SACHIN R 1KG20EC037

SUPRITH R 1KG20EC042

Under the Guidance

of

Dr. Arun Kumar M

Associate Professor,

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24





K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **IoT Based Gas Monitoring & Alerting System** is carried out by Koushik (1KG20EC017), Sachin R (1KG20EC037), Suprith R (1KG20EC042), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-II report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide

Dr. Arun Kumar M
Associate Professor
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Professor & Head
Dept. of ECE

Principal

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Name of the Examiners

- 1 Dr. K. Senthil Babu
- 2 Purna Kamat mhaman

Signature with Date

30/5/24

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE 2

ON

**HAND GESTURE RECOGNITION TO TEXT AND SPEECH CONVERSION
USING IMAGE PROCESSING**

Submitted in Partial fulfilment of the Requirements for 8th Semester

Bachelor of Engineering in

Electronics and Communication Engineering by

G POOJA

1KG20EC011

NEHA KUMARI S

1KG20EC027

UMA C

1KG20EC046

YASHASWINI R

1KG20EC048

Under the Guidance of

Mrs. BHARGAVI V SANGAM

Assistant Professor, Department of ECE, KSSEM



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

2023-24



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


CERTIFICATE


This is to certify that the Project work entitled **Hand Gesture Recognition to Text and Speech Conversion Using Image Processing** is carried out by G Pooja (1KG20EC011), Neha Kumari S (1KG20EC027), Uma C (1KG20EC046), Yashaswini R (1KG20EC048), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project Phase-2 report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide

Head of the Department

Principal


Mrs. Bhargavi V Sangam
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Dr. K. Senthil Babu
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Professor & Head


Dr. k. Rama Narasimha
Principal/Director
KSSEM

Name of the Examiners
1  Dr. K. Senthil Babu
2  Puente Kamal Mahana

Signature with Date

3/7/24

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE 2

ON

RFID BASED SMART CAR PARKING SYSTEM

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

CHAITRA L

1KG20EC006

RAKSHITHA M

1KG20EC036

TANUJA N

1KG20EC043

UJWALA H S

1KG20EC045

Under the Guidance

of

Mrs. JAYASHREE G R

Asst. Professor,

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **RFID Based Smart Car Parking System** is carried out by Chaitra L (1KG20EC006), Rakshitha M (1KG20EC036), Tanuja N (1KG20EC043), Ujwala H S (1KG20EC045), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project Phase-II report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide




Mrs. Jayashree G R
Asst. Professor
Dept. of ECE, KSSEM

Head of the Department



Dr. K. Senthil Babu
Professor & Head
Dept. of ECE, KSSEM
Professor & Head
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Bangalore - 560 109

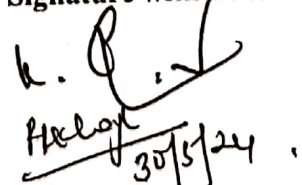
Principal



Dr. K Rama Narasimha
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KSSEM
Dr. K. RAMA NARASIMHA
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Bangalore - 560 109
Signature with Date

Name of the Examiners

- 1 Dr. K. Senthil Babu
- 2 Purna Ramat Mahan



30/5/24

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE II

ON

AUTOMATIC MUSIC GENERATION USING MIDI DATA AND LSTM ANN

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

NARRA BHASKAR NAIDU

1KG20EC025

NARRA SIRI

1KG20EC026

SALISEEMALA UMA CHOWDARY

1KG20EC039

SALISEEMALA USHA CHOWDARY

1KG20EC040

Under the Guidance

Of

Mr. Sanjay B. Nayak

Associate Professor,

Department of ECE, KSSEM



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

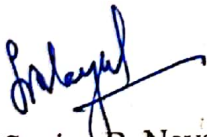


K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **Automatic Music Generation Using MIDI Data and LSTM ANN** are carried out by Narra Bhaskar Naidu (1KG20EC025), Narra siri (1KG20EC026), Saliseemala uma Chowdary (1KG20EC039), Saliseemala usha chowdary (1KG20EC040), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-I report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide



Mr. Sanjay B. Nayak
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Head of the Department



Dr. K. Senthil Babu
Professor & Head
Dept. of ECE

Professor & Head

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Bangalore - 560 109

Principal

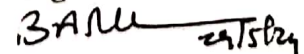


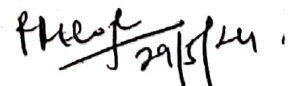
Dr K. Rama Narasimha
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DR. K. RAMA NARASIMHA
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 29/5/24

Name of the Examiners

1 Ravikiran BA

2 Purna Kumar mlane

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE 2

ON

Implementation of School Bus Tracking and Notification System using IOT

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

A YUVA SREE

1KG20EC002

CHANDANA R

1KG20EC007

PUNITH P

1KG20EC033

V SASIDHAR

1KG20EC047

Under the Guidance

of

Mrs. Swati Sarkar

Assistant Professor,

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24



K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **Implementation of School Bus Tracking and Notification System using IOT** is carried out by A.YUVASREE (1KG20EC002), CHANDANA R (1KG20EC007), PUNITH P (1KG20EC033), V.SASIDHAR (1KG20EC047), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-II report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide

Swati Sarkar

Mrs. Swati Sarkar
Asst. Professor
Dept. of ECE

Head of the Department

Dr. K. Senthil Babu

Dr. K. Senthil Babu
Professor & Head
Dept. of ECE

Professor & Head

Dept. of Electronics & Communication Engineering
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Bangalore - 560 109

Principal

Dr. K. Rama Narasimha

Dr. K. Rama Narasimha
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Dr. K. RAMA NARASIMHA
Principal/Director

K.S. School of Engineering and Management
Bangalore - 560 109
Signature with Date

B. A. N. 29/11/24

H. U. S. 29/11/24

Name of the Examiners

1 *Ravikiran B A*

2 *Purna Kant Phansa*



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE 2

ON

Implementation of Low-Cost Ventilator

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

A HARSHATH

1KG20EC001

ADUSUMALLI ROHITH

1KG20EC003

G JYOTHISWAR REDDY

1KG20EC012

K RAVITEJA

1KG20EC018

Under the Guidance

of

Prof. Ravikiran B A

Assistant Professor,

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24





K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **Implementation of Low-Cost Ventilator** is carried out by by A HARSHATH (1KG20EC001), ADUSUMALLI ROHITH (1KG20EC003), JYOTHSWAR REDDY G (1KG20EC012), RAVI TEJA K (1KG20EC018), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-II report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide

BAQU

Prof. Ravikiran B A
Asst. Professor
Dept. of ECE

Name of the Examiners

- 1 Ravikiran BA
- 2 Puspa Kamat Nbarner

Head of the Department

Dr. K. Senthil Babu

Dr. K. Senthil Babu
Professor & Head
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Professor & Head
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Bangalore - 560 109

Principal

Dr. K. Rama Narasimha

Dr. K. Rama Narasimha
Principal/Director
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Dr. K. RAMA NARASIMHA
Principal/Director

K S School of Engineering and Management
Bangalore - 560 109
Signature With Date

BA De
21/5/24
Princip
21/5/24



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT – PHASE II

ON

DESIGN AND FABRICATION OF 2.4GHZ MICROSTRIP ANTENNA

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

G NEERAJ

1KG20EC010

M HEMANTH

1KG20EC021

M KAIVALYA

1KG20EC022

P HARITHA

1KG20EC030

Under the Guidance

Of

Dr. Girish V Attimarad,

Professor,

Department of ECE, KSSEM



KSSEM
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24



K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

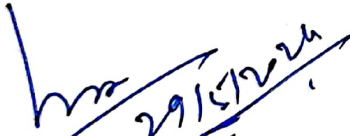
CERTIFICATE

This is to certify that the Project work entitled **Design and Fabrication Of 2.4GHz Microstrip Antenna** is carried out by G Neeraj (1KG20EC010), M Hemanth (1KG20EC021), M Kaivalya (1KG20EC022), P Haritha (1KG20EC030), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project phase-I report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

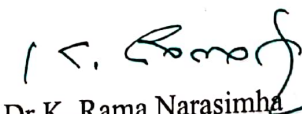
Internal Guide

Head of the Department

Principal


Dr. Girish V Attimarad
Professor
Dept. of ECE


Dr. K. Senthil Babu
Professor & Head
Dept. of ECE
Professor & Head
Dept. of Electronics & Communication Engineering
K.S. School of Engineering & Management
Bangalore - 560 109


Dr K. Rama Narasimha
Principal/Director
KSSEM
Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109
Signature with

Name of the Examiners
Date

1 Ravikiran BA
2 Purna Kumar bhama

BAU
29/5/24


29/5/24

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT

ON

Implementation of Authentication Vehicle Ignition and accident prevention System

Submitted in Partial fulfillment of the Requirements for 8th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

NITHIN G N

1KG20EC029

RAGHAVENDRA C

1KG20EC035

NISHANTH GOWDA M

1KG21EC400

SWAMY M

1KG21EC401

Under the Guidance

of

Mr. Gopalakrishna Murthy C R

Associate Professor,

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-

560109

2023-24



K S SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **Implementation of Authenticated vehicle Ignition and accident prevention system** is carried out by Nithin G N (1KG20EC029), Raghavendra C (1KG20EC035), Nishanth Gowda M (1KG21EC400) and Swamy M (1KG21EC401), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide



Mr. Gopalakrishna Murthy C R
Assoc. Professor
Dept. of ECE

Head of the Department



Dr. K. Senthil Babu
Professor & Head
Dept. of ECE

Principal



Dr K. Rama Narasimha
Principal/Director

KSSEM
Dr. K. RAMA NARASIMHA
Principal/Director

Professor & Head
Dept. of Electronics & Communication Engineering
K.S. School of Engineering & Management
Bangalore - 560 109

KS School of Engineering and Management
Bengaluru - 560 109
Signature with

Name of the Examiners

Date

1 Ravikiran B A

2 Gowda Kamat mbaman

BARU
29/5/24

Halep
29/5/24

①

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

SURFACE WASTE COLLECTION FOR WATER BODIES

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

HARSHITHA U

1KG21EC032

R DAXIN

1KG21EC067

SHREYA M DAMBAL

1KG21EC086

VRISHALI R

1KG21EC103

Under the Guidance

of

DR. RENUKA V TALI

Associate Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

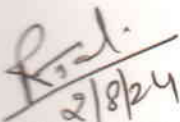
2023-24

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


CERTIFICATE

This is to certify that the Mini-Project work entitled “**Surface Waste Collection for Water Bodies**” are carried out by Harshitha U (1KG21EC032), R Daxin (1KG21EC067), Shreya M Dambal (1KG21EC086), Vrishali R (1KG21EC103), bonafide students of KSSEM in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.


Internal Guide


2/8/24
Dr. Renuka V Tali
Assoc. Professor
Dept. of ECE

Head of the Department


Dr. K. Senthil Babu
Professor & Head
Dept. of ECE

Principal


Dr. K. Rama Narasimha
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Dr. K. RAMA NARASIMHA
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Name of the Examiners

1 Mrs. Jayashree G R



2 Mr. Sanjay B Nayak


5/8/24

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

AUTOMATED ROOM LIGHTING WITH PEOPLE COUNTER

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

By

RAYAVARAM ABHINASH

1KG21EC072

T VENKATESH

1KG21EC094

YUGANDHAR P

1KG21EC107

CHANDRASEKAR B

1KG22EC402

Under the Guidance

of

Dr. KISHORE M

Associate Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

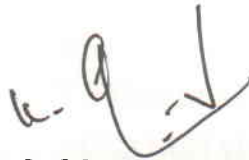
CERTIFICATE

This is to certify that the Mini-Project work entitled **AUTOMATED ROOM LIGHTING WITH PEOPLE COUNTER** is carried out by RAYAVARAM ABHINASH (1KG21EC072) T VENKATESH (1KG21EC094) YUGANDHAR (1KG21EC107) CHANDRASEKAR B (1KG22EC402) Bonafied students of KSSEM in **partial** fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering **under** Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all **corrections** suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and **deposited** in the department library. The report has been approved as it satisfies the academic requirements in **respect** of Mini Project work prescribed for the said Degree.

BAMU

(For Dr. Kishore)

Internal Guide
Dr. Kishore M
Associate Professor
Dept. of ECE



Head of the Department
Dr. K Senthil Babu
Professor & Head of Department
Dept. of ECE

Professor & Head
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K.S. School of Engineering & Management
Bangalore - 560 109



Principal
Dr K. Rama Narasimha
Principal/Director

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Name of the Examiners

Signature with Date

1

2

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

Snacks Vending Machine using QR CODE as Payment Method

Submitted in Partial fulfilment of the Requirements for 6th Semester

Bachelor of Engineering in

Electronics and Communication Engineering by

K. JEEVAN SAI REDDY

M.HARIKA

Y. NITHEESH KUMAR

1KG21EC036

1KG21EC050

1KG22EC418

Under the Guidance of

Dr . Manu D K

Associate Professor,

Department of ECE, KSSEM



KSSEM
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

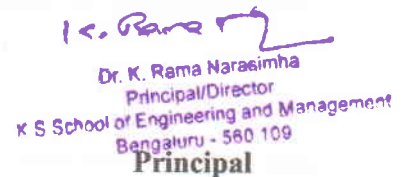
This is to certify that the Mini-Project work entitled is **Snacks Vending Machine using QR CODE as Payment Method** carried out by K. Jeevan Sai Reddy (1KG21EC036), M. Harika (1KG21EC050), Y. Nitheesh Kumar (1KG22EC418), bonafide students of KSSEM in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.



Internal Guide
Dr. Manu D K
Associate Professor
Dept. of ECE



Head of the Department
Dr. K. Senthil Babu
Professor & Head
Dept. of ECE



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Dr. K. Rama Narasimha
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KSSEM

Name of the Examiners

1

2

Signature with Date

04

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

Vibration Monitoring System using IoT

Submitted in Partial fulfilment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

DARHINI R

1KG21EC020

JOSHWA A

1KG21EC034

MANSI MANJUNATH LOKHANDAY

1KG21EC048

MOHAMMED ZAID F

1KG21EC051

Under the Guidance

of

Mr. Ravikiran B A

Asst. Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **Vibration Monitoring System using IoT** is carried out by Darshini R(1KG21EC020), Joshwa A(1KG21EC034), Mansi Manjunath Lokhanday(1KG21EC048), Mohammed Zaid F(1KG21EC051), bonafide students of KSSEM in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide

Head of the Department

Principal



Mr. Ravikiran B A
Asst. Professor
Dept. of ECE



Dr. K Senthil Babu
Professor and head
Dept. of ECE
Professor & Head

Dept. of Electronics & Communication Engineering
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Bangalore - 560 109



Dr K. Rama Narasimha
Principal/Director
KSSEM

Dr. K. RAMA NARASIMHA
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K S School of Engineering and Management
Bengaluru - 560 109
Signature with Date

Name of the Examiners

1

2

5

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

SOIL MOISTURE MONITORING USING IoT FOR MULTIPLE SOILS

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering in

Electronics and Communication Engineering by

G MAHITHA

1KG21EC024

RAGAVENDRA NAIDU AR

1KG21EC069

S ABHINAY

1KG21EC078

V NIKHIL

1KG21EC099

Under the Guidance of

Mrs. REENA D KULKARNI

Asst. Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **Soil Moisture Monitoring Using IoT for Multiple Soils** is carried out by **G Mahitha (1KG21EC024)**, **Ragavendra Naidu AR (1KG21EC069)**, **S Abhinay (1KG21EC078)**, **V Nikhil (1KG21EC099)**, bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide



Mrs. Reena D Kulkarni
Asst. Professor
Dept. of ECE

Head of the Department



Dr. K Senthil Babu
Head of Department
Dept. of ECE

Professor & Head

Dept. of Electronics & Communication Engineering
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Principal



Dr. K Rama Narshimha
Principal/director
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Name of the Examiners

1.

2.

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

AUTOMATED PLANT WATERING SYSTEM USING NODEMCU ESP8266 BLYNK

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

A.YASWANTH

1KG21EC005

B.MARUTHI CHOWDARY

1KG21EC016

M.LAKSHMI

1KG21EC044

M.LIKITHA

1KG21EC052

Under the Guidance

of

Mr. Syed Waseem Tabraiz

Asst. Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU 560109

2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **AUTOMATED PLANT WATERING SYSTEM USING NODEMCU ESP8266 AND BLYNK** is carried out by A.YASWANTH (1KG21EC005), B.MARUTHI CHOWDARY (1KG21EC016), M.LAKSHMI (1KG21EC044), M.LIKITHA (1KG21EC052), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide



Mr. Syed Waseem Tabraiz
Asst. Professor
Dept. of ECE

Head of the Department



Dr. K. Senthil Babu
Professor & Head
Dept. of ECE
Professor & Head

Dept. of Electronics & Communication Engineering
K.S. School of Engineering & Management
Bangalore - 560 109

Principal



Dr. K. Rama Narasimha
Principal/Director
K.S. School of Engineering and Management
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Dr.K. Rama Narasimha
Principal/Director
KSSEM

Name of the Examiners

1

2

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

DESIGN AND DEVELOPMENT OF EMG CONTROLLED PROSTHETIC ARM

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

DEVIKA T S

1KG21EC021

DHANUSH B

1KG21EC022

DILKUSH VISHNOI

1KG21EC023

Under the Guidance

Of

GOPALAKRISHNA MURTHY C R

Associate Professor

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **Design and Development of EMG Controlled Prosthetic Arm** is carried out by Devika T S (1KG21EC021), Dhanush B (1KG21EC022), Dilkush Vishnoi (1KG21EC023), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide

Handwritten: Gopal Krishna Murthy CR 02/08/24
Gopal Krishna Murthy C R
Associate Professor
Dept. of ECE

Head of the Department

Handwritten signature in blue ink
Dr. K Senthil Babu
Professor & Head
Dept. of ECE
Professor & Head
Dept. of Electronics & Communication Engineering
K.S. School of Engineering & Management
Bangalore - 560 109

Principal

Handwritten signature in green ink
Dr K. Rama Narasimha
Principal/Director
KSSEM
Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

Name of the Examiners

1

2

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

IMPLEMENTATION OF SMART LIGHTING SYSTEM

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

G S TEJAS

1KG21EC025

SAI CHENNA KESAVA

1KG21EC038

MAHESH K

1KG21EC043

MUTHU BHARATH

1KG21EC053

Under the Guidance

of

Mrs. SWATI SARKAR

Asst. Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


CERTIFICATE

This is to certify that the Mini-Project work entitled IMPLEMENTATION OF SMART LIGHTING SYSTEM is carried out by G S Tejas (1KG21EC025), Sai Chenna Kesava (1KG21EC038), Mahesh K (1KG21EC043), Muthu Bharath (1KG21EC053), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide


Mrs. Swati Sarkar
Asst Professor
Dept. of ECE

Head of the Department


Dr. K Senthil Babu
Professor and Head
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Principal


Dr K. Rama Narasimha
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K S School of Engineering and Management
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Name of the Examiners

1

2

Dept. of Electronics & Communication Engineering
K.S. School of Engineering & Management
Bengaluru - 560 109

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

SIMULATION OF RECTANGULAR EDGE-FEED WITH QUARTER-WAVE TRANSFORMER MICROSTRIP PATCH ANTENNA

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

A VENISHA CHOWDARY - 1KG21EC001

B UDAY KIRAN - 1KG21EC012

G YUVATEJA NAIDU - 1KG21EC028

G PAVAN KUMAR - 1KG21EC029

Under the Guidance

Of

Dr. Girish V Attimarad

Professor,

Department of ECE, KSSEM



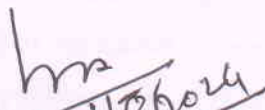
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE


This is to certify that the Project work entitled **Simulation of Rectangular Edge-Fed With Quarter-wave Transformer Micro Strip Patch Antenna** is carried out by A Venisha Chowdary (1KG21EC001), B Uday Kiran (1KG21EC012), G Pavan Kumar (1KG21EC029), G Yuva Teja Naidu (1KG21EC028), bonafide students of KSSEM in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2024-25. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project phase-I report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.


Internal Guide

Dr. Girish V Attimarad
Professor
Dept. of ECE


Head of the Department

Dr. K. Senthil Babu
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Dr. K. Rama Narasimha
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109
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Principal/Director
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Name of the Examiners

Signature with Date

1

2

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

PHONE CONTROLLED ROBOT CAR USING ARDUINO AND BLUETOOTH

Submitted in Partial Fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

A HARI KRISHNA CHOWDARY

1KG21EC009

CHALLA NITHIN

1KG21EC017

D ABHINAY CHOWDARY

1KG21EC019

M ABHILASH

1KG21EC049

Under the Guidance

of

Dr. ARUN KUMAR M

Associate Professor,

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109


2023-24

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


CERTIFICATE

This is to certify that the Mini-Project work entitled **Phone Controlled Robot Car Using Arduino and Bluetooth** is carried out by A HARI KRISHNA CHOWDARY (1KG21EC009), CHALLA NITHIN (1KG21EC017), D ABHINAY CHOWDARY (1KG21EC019), M ABHILASH (1KG21EC049), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements with respect to the Mini Project work prescribed for the said Degree.


Internal Guide


Dr. Arun Kumar M
Associate Professor
Dept. of ECE

Head of the Department


Dr. K Senthil Babu
Professor & Head
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Principal


Dr. K Rama Narasimha
Principal/Director
KSSEM

Name of the Examiners

Signature with Date

1

2

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

STUDENT DATABASE MANAGEMENT

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

ANANYA B SHETTY

1KG21EC006

LATHA P N

1KG21EC039

SRUJAN R

1KG21EC091

K UDAY KIRAN

1KG22EC406

Under the Guidance

of

SANJAY B NAYAK

Associate Professor,

Department of ECE, KSSEM



KSSEM

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **Student Database Management** is carried out by Ananya B Shetty (1KG21EC006), Latha P N (1KG21EC039), Srujan R (1KG21EC091), K Uday Kiran (1KG22EC406), Bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide



Sanjay B Nayak
Associate Professor
Dept. of ECE

Head of the Department



Dr. K Senthil Babu
Professor & Head
Dept. of ECE

Professor & Head

Dept. of Electronics & Communication Engineering
K.S. School of Engineering & Management
Bangalore - 560 109

Principal



Dr. K. Rama Narasimha
Principal/Director
K S School of Engineering and Management

Dr. K. Rama Narasimha
Principal/Director
KSSEM

Name of the Examiners

1

2

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

HOTEL MANAGEMENT SYSTEM USING C PROGRAMMING

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

AJAY N V

1KG21EC003

NIKHIL P N

1KG21EC057

NITHIN B

1KG21EC058

SONISH K R

1KG21EC088

Under the Guidance

of

MANJULA B G

Associate Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

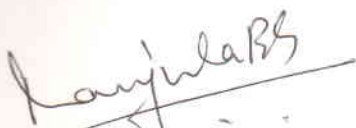
2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **Hotel Management System using C Programming** is carried out by Sonish K R (1KG21EC088), Ajay N V (1KG21EC003), Nithin B (1KG21EC058), Nikhil P N (1KG21EC057), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide



Manjula B G
Associate Professor
Dept. of ECE

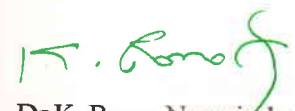
Head of the Department



Dr. K Senthil Babu
Professor and Head
Dept. of ECE

Professor & Head
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K.S. School of Engineering & Management
Bengaluru - 560 109

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Principal/Director
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Dr. K. RAMA NARASIMHA
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Name of the Examiners

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

IOT BASED DRY AND WET WASTE SEGREGATION

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

R M LAVYA

1KG21EC068

SPOORTHI V

1KG21EC090

SUPRITH Y

1KG21EC105

MADAN GOWDA

1KG21EC410

Under the Guidance

of

Mrs. TEJASWINI G V

Assistant Professor,

Department of ECE, KSSEM



KSSEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109


2023-24

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **IOT Based Dry and Wet Waste Segregation** is carried out by R M Lavya (1KG21EC068), Spoorthi V (1KG21EC090), Suprith Y (1KG21EC105), Madan Gowda K S (1KG21EC410), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide


Mrs. Tejaswini G V
Assistant Professor
Dept. of ECE

Head of the Department



Dr. K Senthil Babu
Head of Department
Dept. of ECE

Professor & Head
Dept. of Electronics & Communication Engineering
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Bangalore - 560 109

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Dr K. Rama Narasimha
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Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bangaluru - 560 109

Signature with Date

Name of the Examiners

- 1.
- 2.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

MECHANIZED KNEE REHABILITATION

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

SHASHANK S

1KG21EC084

THARUN KUMAR

1KG21EC097

VIKAS H J

1KG21EC102

SHASHANK R

1KG22EC416

Under the Guidance

of

Dr. K. SENTHIL BABU

Professor & Head

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE


This is to certify that the Mini-Project work entitled **Mechanized Knee Rehabilitation** is carried out by Shashank S (1KG21EC084), Tharun Kumar (1KG21EC097), Vikas H J (1KG21EC102), Shashank R(1KG22EC416), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide & Head of the Department

Principal


Dr. K. Senthil Babu
Professor & Head
Dept. of ECE
Professor & Head

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Name of the Examiners

Signature with Date

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

DESIGN OF LOW COST SEMG SENSOR

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

ANIKA KAVYA TIPPINNI

1KG21EC010

BHUMIKA B R

1KG21EC015

HARSHINI A

1KG21EC030

HARSHITHA R DAS

1KG21EC031

Under the Guidance

of

Mr. RAVIKIRAN B A

Asst. Professor,

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-56010


2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


CERTIFICATE

This is to certify that the Mini-Project work entitled **Design of low cost sEMG sensor** is carried out by Anika Kavya Tippinni (1KG21EC010), Bhumika B R (1KG21EC015), Harshini A (1KG21EC030), Harshitha R Das .(1KG21EC031), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

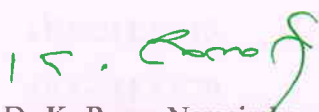
Internal Guide


Mr. Ravikiran B A
Asst. Professor
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Head of the Department


Dr. K Senthil Babu
Head of Department
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Name of the Examiners

- 1
- 2

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

3D PRINTING MACHINE USING A DVD PLAYER

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

NAGARAJ VAGGA

1KG21EC054

ANURAAG G V

1KG22EC401

DHARSHINI T S

1KG22EC405

MALLESH N

1KG22EC411

Under the Guidance

of

BHARGAVI VIJENDRA SANGAM

Asst. Professor,

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109


2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


CERTIFICATE

This is to certify that the Mini-Project work entitled **3D Printing Machine Using a DVD Player** is carried out by Nagaraj Vagga (1KG21EC054), Anuraag G V (1KG22EC401), Dharshini T S (1KG22EC405), Mallesh N (1KG22EC411), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.


Internal Guide


Bhargavi Vijendra Sangam
Asst. Professor
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Head of the Department


Dr. K Senthil Babu
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Name of the Examiners

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

TWO WHEEL MOTOR DRIVE WITH SENSOR

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

PAVAN KN

1KG21EC061

PAVAN M D

1KG21EC062

PAVAN S

1KG21EC063

THEERTHA RAJ G

1KG21EC098

Under the Guidance of

Mrs. HEMA PRIYA

Asst. Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **TWO WHEEL MOTOR DRIVE WITH SENSOR** is carried out by PAVAN K N (1KG21EC061), PAVAN M D(1KG21EC062), PAVAN S(1KG21EC063), THEERTHA RAJ G(1KG21EC098), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide



Mrs. Hema Priya M
Asst. Professor,
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Head of the Department



Dr. K Senthil Babu
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Dept. of ECE
Professor & Head

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Name of the Examiners

1

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Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

MARKS MANAGEMENT SYSTEM

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

NAVEEN KUMAR K

1KG21EC056

SANJANA P

1KG21EC079

SHIJU LUKOSE

1KG21EC085

Under the Guidance

of

Mr. Dileep J

Asst. Professor,

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109


2023-24

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

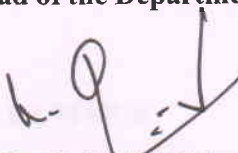
This is to certify that the Mini-Project work entitled **Marks Management System** is carried out by Naveen Kumar K (1KG1EC056), Sanjana P (1KG21EC079), Shiju Lukose (1KG21EC085), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide


(For Mr. Dileep J)
Mr. Dileep J
Asst. Professor


Dept. of ECE

Head of the Department


Dr. K. Senthil Babu
Professor & Head

Dept. of ECE
Professor & Head
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Dr. K. Rama Narasimha
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KSSEM

Name of the Examiners

1

2

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

A GESTURE BASED INTERFACE FOR HUMAN-ROBOT INTERACTION

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

MARGAV R RAO

1KG21EC013

JYOTHISH K

1KG21EC035

LAKSH N

1KG21EC041

Under the Guidance

of

DEEPA R BHANGI

Assistant Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

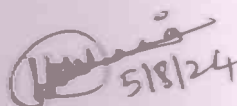
2023-24

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

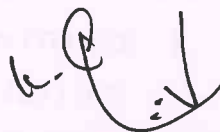
This is to certify that the Mini-Project work entitled **A GESTURE BASED INTERFACE FOR HUMAN-ROBOT INTERACTION** is carried out by Bhargav R Rao (1KG21EC013), Jyothish k (1KG121EC035), Likith N (1KG21EC041) bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the mini project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide


5/8/24

Deepa R Bhangi
Professor
Dept. of ECE

Head of the Department



Dr. K Senthil Babu
Head of Department
Dept. of ECE

Principal



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Bangalore - 560 109

Name of the Examiners

1

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Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY**Jnana Sangama, Belagavi-590014****MINI PROJECT REPORT****ON****FACULTY MANAGEMENT SYSTEM****Submitted in Partial fulfillment of the Requirements for 6th Semester****Bachelor of Engineering****in****Electronics and Communication Engineering****by****ANANYA N****1KG21EC008****SATHVIK A N****1KG21EC081****VIDYA SAGAR B K****1KG21EC101**

Under the Guidance

of

Mr. Dileep J

Asst. Professor,

Department of ECE, KSSEM

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109****2023-24**

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **Faculty Management System** is carried out by **Ananya N (1KG1EC008)**, **Sathvik A N (1KG21EC081)**, **Vidyasagar B K (1KG21EC101)**, bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** under Visvesvaraya Technological University, **Belgaum** during the year 2023-24. It is certified that all corrections/suggestions indicated for **Internal Assessment** have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide



Mr. Dileep J
Asst.Professor
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Head of the Department



Dr. K. Senthil Babu
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Professor & Head
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Name of the Examiners

1

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Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

BLUETOOTH BASED SMART LOCKING SYSTEM

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

SAHANA S

1KG21EC074

Y LAHARI

1KG21EC104

AJITH M

1KG22EC400

COTRA SRAVANI

1KG22EC404

Under the Guidance

of

Mrs. REENA D KULKARNI

Asst. Professor,

Department of ECE, KSSEM



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

2023-24

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **Bluetooth Based Smart Locking System** is carried out by SAHANA S (1KG21EC074), Y LAHARI (1KG21EC104), AJITH M (1KG22EC400), COTRA SRAVANI (1KG22EC404), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide



Mrs. Reena D Kulkarni
Asst. Professor
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Head of the Department



Dr. K Senthil Babu
professor & Head
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Name of the Examiners

1

2

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

SINGLE AXIS SOLAR TRACKER

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

SAI MEGHANA K M

1KG21EC077

SIMRAN TAJ B

1KG21EC087

SONU N

1KG21EC089

SUDHEERSHANA K V

1KG21EC092

Under the Guidance

of

Mrs. Jayashree G R

Asst. Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **SINGLE AXIS SOLAR TRACKER** is carried out by Sai Meghana K M (1KG21EC077), Simran Taj B (1KG21EC087), Sonu N (1KG21EC089), Sudheershana K V (1KG21EC092), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide



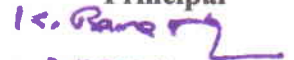
Mrs. Jayashree G R
Asst Professor
Dept. of ECE

Head of the Department



Dr. K Senthil Babu
Professor & Head
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Dr K. Rama Narasimha
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Name of the Examiners

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Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



PROJECT REPORT

ON

IMPLEMENTATION OF RFID BASED CAR IGNITION SYSTEM

Submitted in Partial fulfilment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

PRAMOD S

1KG21EC064

CHEZHAN S

1KG22EC403

SAGAR K A

1KG22EC414

SHARATH G B

1KG22EC415

Under the Guidance

of

Mrs. Swati Sarkar

Assistant Professor,

Department of ECE, KSSEM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **Implementation Of RFID Based Car Ignition System** is carried out by PRAMOD S (1KG21EC064), CHETHAN S (1KG22EC403), SAGAR K A (1KG22EC414), SHARATH G B (1KG22EC415), bonafide students of KSSEM in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Internal Guide

Head of the Department

Principal



Mrs. Swati Sarkar
Asst. Professor
Dept. of ECE



Dr. K Senthil Babu
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Name of the Examiners

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Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

VEHICLE ANTI-THEFT SYSTEMS USING ARDUINO

Submitted in Partial Fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

PATHAKAMURI BALA CHANDRA

1KG21EC060

PRATAPANENI YOGESH

1KG21EC065

SAI CHOWDARY L

1KG21EC075

Under the Guidance

of

Mr. SYED WASEEM TABRAIZ

Asst. Professor,

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023-24

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **Vehicle Anti-Theft System Using Arduino** is carried out by PATHAKAMURI BALA CHANDRA (1KG21EC060), PRATAPANENI YOGESH (1KG21EC065), SAI CHOWDARY L (1KG21EC075), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements with respect to the Mini Project work prescribed for the said Degree.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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MINI PROJECT REPORT

ON

TRACK A VEHICLE ON GOOGLE MAPS USING ARDUINO AND GPS

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

GANESH R

1KG21EC027

JEEVAN A A

1KG21EC033

MANISH S

1KG21EC045

MANOJ S

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

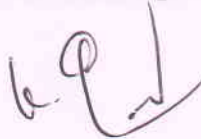
This is to certify that the Mini-Project work entitled **TRACK A VEHICLE ON GOOGLE MAPS USING ARDUINO AND GPS** is carried out by Ganesh R (1KG21EC027), Jeevan A A (1KG21EC033), Manish S (1KG21EC045), Manoj S (1KG21EC047), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide


01/08/24

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MINI PROJECT REPORT ON DETECTION OF R WAVE PEAK IN ECG SIGNALS

Submitted in Partial fulfilment of the Requirements for 6th Semester
Bachelor of Engineering
in

Electronics and Communication Engineering

by

- | | |
|-----------------------------|-------------------|
| RAKSHITHA H | 1KG21EC070 |
| RAM PRASAD P V | 1KG21EC071 |
| SHASHANK B VENKATESH | 1KG21EC082 |
| MEGHA S K | 1KG22EC412 |

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **Detection of R Wave Peak in ECG Signals** is carried out by Rakshitha H (1KG21EC070), Ram Prasad P V (1KG21EC071), Shashank B Venkatesh (1KG21EC082), Megha S K (1KG22EC412), bonafide students of **KSSEM** in partial fulfilment for the award of Bachelor of Engineering in Electronics and **Communication Engineering** under **Visvesvaraya Technological University, Belgaum** during the year 2022-23. It is certified that all corrections/suggestions indicated for **Internal Assessment** have been incorporated in the Mini Project report and deposited in the department **Library**. The report has been approved as it satisfies the academic requirements in respect of **Mini Project** work prescribed for the said Degree.


7/8/24
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT

ON

FALL DETECTION USING IOT SYSTEM

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

NANDAN KUMAR V S

1KG21EC055

SHASHANK G NAYAK

1KG22EC083

S CHENNAKESAVA

1KG22EC080

P YASWANTH

1KG22EC106

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2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project work entitled **FALL DETECTION USING IOT SYSTEM** is carried out Nandan Kumar V S (1KG21EC055), Shashank G Nayak (1KG21EC083), S Chennakeshava (1KG21EC080), P Yaswanth (1KG21EC106), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY**Jnana Sangama, Belagavi-590014****MINI PROJECT REPORT****ON****VIBRASENSE VISUAL AID STICK****Submitted in Partial fulfillment of the Requirements for 6th Semester****Bachelor of Engineering****in****Electronics and Communication Engineering****by****SAI LOKESH C S****1KG21EC076****THANUSHA R****1KG21EC096****VANDANA P****1KG21EC100**

Under the Guidance

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K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
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CERTIFICATE

This is to certify that the Mini-Project work entitled **Vibrasense visual aid stick** is carried out by Sai Lokesh C S(1KG21EC076), Thanusha R(1KG21EC096), Vandana P(1KG21EC100), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.


Internal Guide


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MINI PROJECT REPORT

ON

AIR QUALITY MONITORING

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

ABHINANDAN A

1KG21EC002

AKSHITHA URS M C

1KG21EC004

CHANDAN YADAV S

1KG21EC018

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1KG21EC026

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2023-24

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CERTIFICATE

This is to certify that the Mini-Project work entitled **Air Quality Monitoring** is carried out by Abhinandan A (1KG21EC002), Akshitha Urs M C (1KG21EC004), Chandan Yadav S (1KG21EC018), G Ushashree (1KG21EC026), Bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Internal Guide



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MINI PROJECT REPORT

ON

AUTOMATIC HIGH AND LOW BEAM CONTROL MODEL FOR VEHICLE

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

LAVANYA SHREE T N

1KG21EC040

M PRASHANTH KUMAR

1KG21EC042

MANOJ P K

1KG21EC046

KARTHIK C M

1KG22EC407

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MANJULA B G

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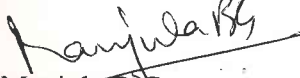
2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


CERTIFICATE

This is to certify that the Mini-Project work entitled **Automatic High and Low Beam Control Model for Vehicle** is carried out by Lavanya Shree T N (1KG21EC040), M Prashanth Kumar (1KG21EC042), Manoj P K (1KG21EC046), Karthik C M(1KG22EC407), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.


Internal Guide


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MINI PROJECT REPORT

ON

OBJECT DETECTION USING ARDUINO ULTRASONIC RADAR SYSTEM

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

K. VANAJA

1KG22EC408

KRUTHIK ACHAR R

1KG22EC409

MOHAMMED AYMAAN

1KG15EC411

SHIVASHANKAR N

1KG22EC417

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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CERTIFICATE

This is to certify that the Mini-Project work entitled **OBJECT DETECTION USING ARDUINO ULTRASONIC RADAR SYSTEM** is carried out by K Vanaja (1KG22EC408), Kruthik achar R (1KG22EC409), Mohammed Aymaan (1KG22EC413), Shivashankar N (1KG22EC417), bonafide students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.


Internal Guide


Mrs. Jayashree G R
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590014



MINI PROJECT REPORT ON

REALTIME RESPONSIVE AUTOMATED WINDOW AND WATER SUPPLY OPERATOR FOR INDOOR PLANTATIONS USING IOT

Submitted in Partial fulfillment of the Requirements for 6th Semester

Bachelor of Engineering

in

Electronics and Communication Engineering

by

NITHIN KUMAR N

1KG21EC059

PUNITH P

1KG21EC066

ROHITH M J

1KG21EC073

TEJAS K

1KG21EC095

Under the Guidance
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Bhargavi Vijendra Sangam

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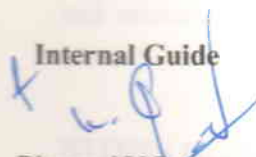
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

2023-24

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


CERTIFICATE

This is to Certify that the Mini-Project work entitled "REAL TIME RESPONSIVE AUTOMATED WINDOW AND WATER SUPPLY OPERATOR FOR INDOOR PLANTATIONS USING IOT" is carried out by Nithin Kumar N (1KG21EC059), Punith P (1KG21EC066), Rohith M J (1KG21EC073), Tejas K (1KG21EC095), bonafied students of KSSEM in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections/suggestions indicated for internal Assessment have been incorporated in the Mini Project report and deposited in the department library. The report has been approved as it satisfies the academic requirements in respect of Mini Project work.

Internal Guide

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