

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

BAU 29/5/24

Heloje 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

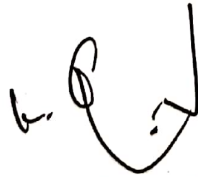
This is to certify that the Project work entitled **Identification of Right and Left Ventricular Hypertrophy from ECG using Machine Learning** are carried out by Akshatha S (1KG20EC004), K Gowtham (1KG20EC014), Sadhana H D (1KG20EC038), bonafide students of KSSEM in partial fulfillment for the award 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



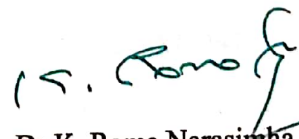
Dr. Renuka V Tali
Asst. Professor
Dept. of ECE

Head of the Department



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

Principal



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

1 RAVIKIRAN B.A.

2 purna karnat mhanan

Signature with Date

B Anu 29/5/24

Hedra 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
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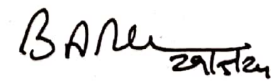
Principal



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

Name of the Examiners

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

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

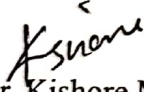
CERTIFICATE

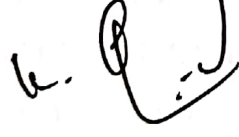
This is to certify that the Project work entitled **Detection Of Age Related Macular Degeneration With AI** are carried out by Daruru Dhanya Deepika (1KG20EC008), Kishore Kumar M (1KG20EC016), Mannam Vandana (1KG20EC023), N S Banu prasad (1KG20EC024), bonafide students of KSSEM in partial fulfillment 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.

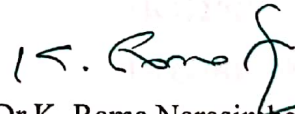
Internal Guide

Head of the Department

Principal


Dr. Kishore M
Assoc. Professor
Dept. of ECE


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

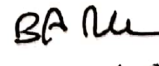

Dr. K. Rama Narasimha
Principal/Director
KSSEM

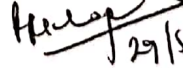
Professor & Head
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Dr. K. RAMA NARASIMHA
Principal/Director
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Bangalore - 560 109
Signature With Date

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
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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Principal/Director

K S School of Engineering and Management
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
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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Bengaluru - 560 109

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


Dr. k. Rama Narasimha
Principal/Director
KSSEM

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

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



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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 **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

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

Principal



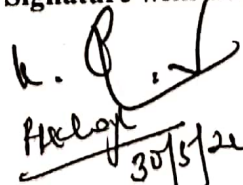
Dr. K Rama Narasimha
Principal/Director
KSSEM

Dr. K. RAMA NARASIMHA
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School of Engineering and Management
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



KSSEM

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

2023-24

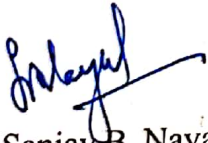


K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **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
Assoc. Professor
Dept. of ECE

Head of the Department



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

Professor & Head

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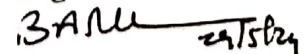


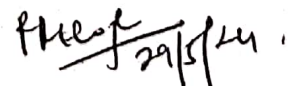
Dr K. Rama Narasimha
Principal/Director

DR. K. RAMA NARASIMHA
Principal/Director

K S School of Engineering and Management
Bengaluru - 560 109

Signature with Date

 29/5/24

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

Principal

Dr. K. Rama Narasimha

Dr. K. Rama Narasimha
Principal/Director
KSSEM

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 Nbarma

Head of the Department

Dr. K. Senthil Babu

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

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
21/5/24
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

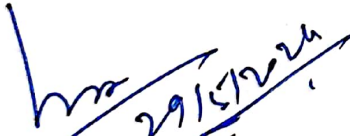
CERTIFICATE


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.

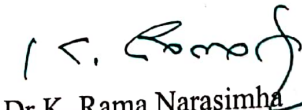
Internal Guide

Head of the Department

Principal


Dr. Girish V Attimarad
Professor
Dept. of ECE

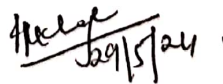

Dr. K. Senthil Babu
Professor & Head
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Name of the Examiners
Date

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,

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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 **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



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Assoc. Professor
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Head of the Department



Dr. K. Senthil Babu
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Signature with

Name of the Examiners

Date

1 Ravikiran B A

2 Gowda Kamat mbaman

BARU
29/5/24

Halep
29/5/24