



NEW HORIZON
COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathahalli
Autonomous College Permanently Affiliated to VTU. Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade. Accredited by NBA

Department of Electrical and Electronics Engineering

Project Phase-II-EEE84

Rubrics for Main Project (Phase-II) :

S. No.	Assessment Metric	Rubrics for Assessment			POs addressed
		Excellent (5)	Good (3)	Fair (2)	
1.	Connectivity of Phase-I with Phase-II	Able to properly provide connectivity of Phase-I with Phase-II. Also able to appropriately analyse results of Phase-I.	Able to connect Phase-I and Phase-II with partial analysis of results of Phase-I.	Not able to connect Phase-I and Phase-II properly.	PO1, PO2, PO12
2.	Are Project management principles such as Individual / Team management with ethical principles are followed?	Treats team members respectfully and manages or resolves conflicts in ways that strengthen overall team cohesiveness.	Respectfully identifies and acknowledges conflict to work towards resolution.	Respectfully redirects focus away from conflict to the immediate task at hand.	PO8, PO9, PO10, PO11
3.	Whether the student is able to learn the latest technologies and modern engineering tools for realizing the project?	Is able to quickly and effectively learn new tools and skills	Is able to eventually learn new tools and skills, but is sometimes inefficient and uncomfortable doing so	Is unable to independently learn new tools and skills; requires assistance	PO5
4.	Whether the project is properly implemented and useful results are obtained?	The project is implemented and all the results proposed in Simulation Phase-I are obtained.	The project is implemented and only few results proposed in Simulation Phase-I are obtained.	The project is implemented but the results proposed in simulation Phase-I are not obtained properly.	PO3, PO4, PO5, PO6, PO7
5.	Whether the project documentation and presentation are effective?	Information is in logical sequence with diagrams, table etc., complete and formatted. Results are analyzed properly and there is scope for further work.	Information is in logical sequence without diagrams, table etc., complete and formatted. Results are analyzed but there is no scope for further work.	Mostly unclear and not formatted. Results are not properly analyzed and there is no scope for further work.	PO10

Project Co-ordinator

(Signature)

HOD-EEE

(Signature)

Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, Kadubisenahalli, Bellandur Post
Bengaluru - 560103, Karnataka, India



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NATIONAL INSTITUTIONAL RANKING FRAMEWORK, 2018
Ministry of Human Resource Development, Government of India

Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE75 Project - Phase II

Report on

Detection and Prevention of Electrical Power Theft and Wireless Alert
System

Submitted in the partial fulfilment of the Final Year Project

Submitted by

Yashwanth B S INH17EE064

Vybhav A INH17EE063

Dushyanth Kumar U INH17EE013

Gnanesh Nayak K V INH18EE402

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



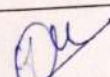
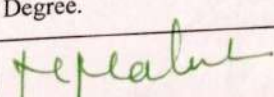
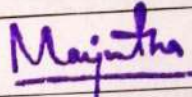
2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

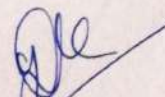
CERTIFICATE

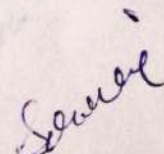
Certified that the Project Phase II work entitled "Detection and Prevention of Electrical Power Theft and Wireless Alert System" carried out by Yashwanth B S(INH17EE064), Vybhav A(INH17EE063), Dushyanth Kumar U(INH17EE013), Gnanesh Nayak K V(INH18EE402) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswararajah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Senior Assistant professor J.Joshua Daniel Raj	Dr.Mahesh.M	Dr.MANJUNATHA

SEMESTER END EXAMINATION


 Internal Examiner


 External Examiner

DECLARATION

I Yashwanth B S, Vybhav A, Dushyanth Kumar U, Gnanesh Nayak K U students of New Horizon College of Engineering hereby declare that, this project phase I work entitled "Detection and Prevention of Electrical Power Theft and Wireless Alert System" is an original and bonafide work carried out by us at New Horizon College of Engineering, Bangalore in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Yashwanth B S – 1NH17EE064

Vybhav A – 1NH17EE063

Dushyanth Kumar U – 1NH17EE013

Gnanesh Nayak K V – 1NH18EE402

Yashwanth
Vybhav
Dushyanth
Gnanesh



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Ministry of Human Resource Development, Government of India

Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE75 Project - Phase II

Report on

Arduino Based Novel and Intelligent Control Circuitry to Monitor Electrical
Parameters at Substation

Submitted in the partial fulfilment of the Final Year Project

Submitted by

Aditya D Aparanji 1NH17EE001

D Nikhil Kumar 1NH17EE010

Jayanth N 1NH17EE021

Lohith V 1NH17EE029

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum: 590018



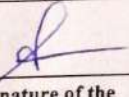
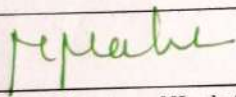
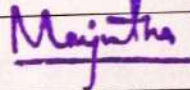
2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

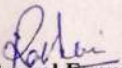
CERTIFICATE

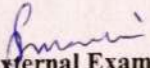
Certified that the Project Phase II work entitled "Arduino based Novel and Intelligence control circuitry to monitor electrical parameters at Substation" carried out by Aditya D Aparanji (1NH17EE001), D Nikhil Kumar (1NH17EE010), Jayanth N (1NH17EE021), Lohith V (1NH17EE029) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Senior Assistant professor Mr. Inbasagan S	Dr.Mahesh.M	Dr.MANJUNATHA

SEMESTER END EXAMINATION


 Internal Examiner


 External Examiner

DECLARATION

We Aditya D Aparanji, D Nikhil Kumar, Jayanth N , Lohith V students of New Horizon College of Engineering hereby declare that, this project phase II work entitled "Arduino based Novel and Intelligence control circuitry to monitor electrical parameters at Substation" is an original and bonafide work carried out by us at New Horizon College of Engineering, Bangalore in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Aditya D Aparanji – 1NH17EE001

Aditya

D Nikhil Kumar– 1NH17EE010

Nikhil

Jayanth N – 1NH17EE021

Jayanth

Lohith V – 1NH17EE029

Lohith

Department of Electrical and Electronics Engineering

EEE84 Project Report

SOLAR REFRIGERATOR FOR PORTABLE REFRIGERATION

Submitted by

K SHRIYA REDDY	INH17EE025
K SAI HEMANTH REDDY	INH17EE027
M SAI RAGHURAM AMOGH	INH17EE030
THAMIMULLA	INH17EE058

Under the Guidance of

Dr. Vinoth Kumar K

Associate Professor

Dissertation submitted in partial fulfillment of the requirements
For the award of the degree of

BACHELOR OF ENGINEERING

In

ELECTRICAL AND ELECTRONICS ENGINEERING

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

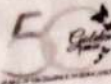
“Jnana Sangama”, Belgaum – 590018, Karnataka, India



2020-2021



NEW HORIZON COLLEGE OF ENGINEERING



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Accredited by NBA and AACSB with Grade 'A'
New Horizon Knowledge Park, Ring Road, Bellandur Post, Bengaluru 560 103

BONAFIDE CERTIFICATE

This is to certify that the project report entitled, "Solar Refrigerator for Portable Refrigeration" is a bonafide record of work of the following candidates who carried out the project work under my supervision during 2020-2021:

K SHRIYA REDDY	1NH17EE025
K SAI HEMANTH REDDY	1NH17EE027
M SAI RAGHURAM AMOGH	1NH17EE030
THAMIMULLA	1NH17EE058

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

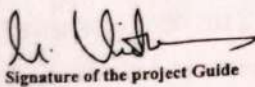
BACHELOR OF ENGINEERING

in ELECTRICAL AND ELECTRONICS ENGINEERING

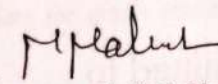
of New Horizon College of Engineering, Bengaluru of Visvesvaraya Technological University,

Belgaum during the Even semester, academic year 2020-21 .

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.


Signature of the project Guide

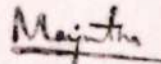
Dr. VINOTH KUMAR K



Signature of the Head of the
Department

Dr. M. Mahesh

Head of the Department
Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, Kadubisanahalli, Bellandur Post,
Bangalore - 560103, Karnataka, India



Signature of the Principal

Dr. Manjunatha

Principal
New Horizon College of Engineering
Outer Ring Road, Bellandur Post,
Bangalore - 560 103.

DECLARATION

We K SHRIYA REDDY (INH17EE025), K SAI HEMANTH REDDY (INH17EE027), M SAI RAGHURAM AMOGH (INH17EE030), THAMIMULLA (INH17EE058) students of New Horizon College of Engineering hereby declare that, this project work entitled "Solar Refrigerator For Portable Refrigeration" is an original and bonafide work carried out at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of our knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

K SHRIYA REDDY

INH17EE025

K SAI HEMANTH REDDY

INH17EE027

M SAI RAGHURAM AMOGH

INH17EE030

THAMIMULLA

INH17EE058

Shriya
K Sai Hemant Reddy
M Sai Raghuram Amogh
Thamimulla



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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE84 Project - Phase II

Report on

SMART MEDICINE PILL BOX USING MICROCONTROLLER

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

K AYUSHA RAJ 1NH17EE023

DEEPA KM 1NH17EE011

MONISHA REDDY 1NH17EE034

Guided By

Ms. KARTHIKA.M

2020-21

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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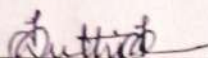
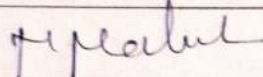
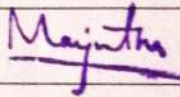
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

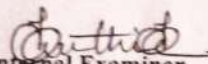
CERTIFICATE

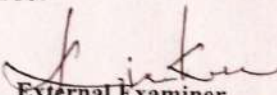
Certified that the Project work entitled "Smart medicine pill box using microcontroller" carried out by K AYUSHA RAJ(INH17EE023), DEEPA KM (INH17EE011), MONISHA REDDY(INH17EE034) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Ms. KARTHIKA.M	Dr. MAHESH M	Dr. MANJUNATHA

SEMESTER END EXAMINATION

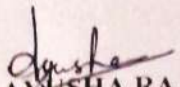

Internal Examiner


External Examiner


DECLARATION

I K AYUSHA RAJ, MONISH REDDY, DEEPA KM student of New Horizon College of Engineering hereby declare that, this project work entitled "SMART MEDICINE PILL BOX USING MICROCONTROLLER" is an original and bonafide work carried out by me at New Horizon college of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

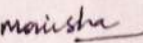
I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


K AYUSHA RAJ

1NH17EE023

DEEPA KM 

1NH17EE011

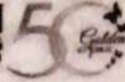
MONISHA 
REDDY

REDDY

1NH17EE034



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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE75 Project - Phase II

Report on

**REAL TIME SAFETY MONITORING SYSTEM
FOR COVID-19**

Submitted in the partial fulfilment of the Final Year Project - Phase I

Submitted by

RICHARD CHRISTOPHER 1NH17EE046

KURETI VENKAT NISHIT 1NH17EE060

SYEDA SARAH BATOOL 1NH17EE055

SINDHU R 1NH17EE053

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



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Ministry of Human Resource Development, Government of India

Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the Project Phase II work entitled "REAL TIME SAFETY MONITORING SYSTEM FOR COVID-19" carried out by Richard Christopher(INH17EE046), Kureti Venkat Nishit(INH17EE060), Syeda Sarah Batool(INH17EE055), Sindhu R(INH17EE053), bonafide students of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Ms.Karthika. M	Dr.Mahesh.M	Dr.Manjunatha

SEMESTER END EXAMINATION

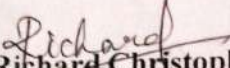
Internal Examiner

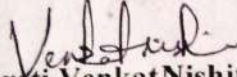
External Examiner

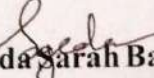
DECLARATION

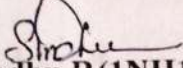
We (Richard Christopher, Kureti Venkat Nishit, Syeda Sarah Batool, Sindhu R) students of New Horizon College of Engineering hereby declare that, this project phase I work entitled "REAL TIME SAFETY MONITORING SYSTEM FOR COVID-19" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


Richard Christopher (INH17EE046)


Kureti Venkat Nishit (INH17EE060)


Syeda Sarah Batool (INH17EE055)


Sindhu R (INH17EE053)



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Bengaluru – 560103, Karnataka, India

Department of Electrical and Electronics Engineering

EEE84 Project – Phase II
Report on

SMART TRANSFORMER MAINTENANCE AND PROTECTION

Submitted by

MANASA G	1NH17EE031
NITHYAHV	1NH17EE035
NITHYAV	1NH17EE036

Under the Guidance of

Mr.Lithesh J

Assistant Professor

Dissertation submitted in partial fulfillment of the
requirements For the award of the degree of

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum – 590018, Karnataka, India

2020-2021





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Bengaluru – 560103, Karnataka, India

BONAFIDE CERTIFICATE

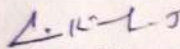
This is to certify that the project report entitled, "Smart Transformer Maintenance and Protection" is a bonafide record of work of the following candidates who carried out the project work under my supervision during 2020- 2021:

MANASA G	1NH17EE031
NITHYA H V	1NH17EE035
NITHYA V	1NH17EE036

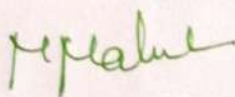
Dissertation submitted in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF ENGINEERING in ELECTRICAL AND ELECTRONICS ENGINEERING**

of New Horizon College of Engineering, Bengaluru of Visvesvaraya Technological University, Belgaum during the odd semester, academic year 2020-21 .

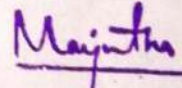
It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.


Signature of the project Guide

Prof. Lithesh J

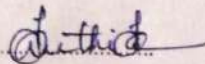

Signature of the Head of the
Department

Dr. M. Mahesh

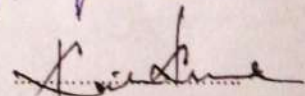

Signature of the Principal

Dr. Manjunatha

Semester End Examination held on July/August 2021



(Internal Examiner)



(External Examiner)

DECLARATION

We **Manasa G -1NH17EE031, Nithya H V- 1NH17EE035, Nithya V- 1NH17EE0361NH17EE713** students of New Horizon College of Engineering hereby declare that, this project phase-I work entitled "**Smart Transformer Maintenance and Protection**" is an original and bonafide work carried out at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of our knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

MANASA G
NITHYA H V
NITHYA V

1NH17EE031 *Manasa G*
1NH17EE035 *Nithya H V*
1NH17EE036 *Nithya V*

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE75 Project - Phase II

Report on

**MILITARY SUPPORT AND SURVEILLANCE
ROBOT**

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

SHRI HARSHA S 1NH17EE052

BHANU PRAKASH NAIDU S 1NH18EE400

SADASHIV MANTUR N 1NH18EE404

YASHWANTH GOWDA S 1NH18EE408

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum: 590018



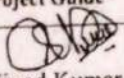
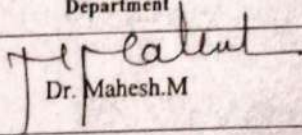
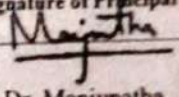
2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

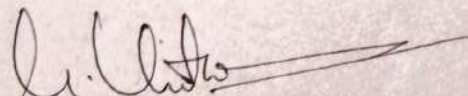
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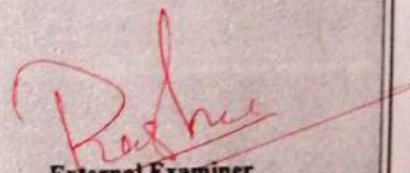
Certified that the Project Phase II work entitled "MILITARY SUPPORT AND SURVEILLANCE ROBOT" carried out by SHRI HARSHA S (INH17EE052), BHANU PRAKASH NAIDU S (INH18EE400), SADASHIV MANTUR N (INH18EE404), YASHWANTH GOWDA S (INH18EE408) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
 Mr. Vinod Kumar S	 Dr. Mahesh.M	 Dr. Manjunatha

SEMESTER END EXAMINATION

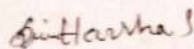

 Internal Examiner

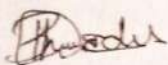

 External Examiner

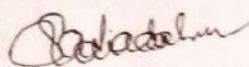
DECLARATION

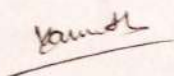
We student of New Horizon College of Engineering hereby declare that, this Project work entitled "**MILITARY SUPPORT AND SURVEILLIANCE ROBOT**" is an original and Bonafide work carried out by us in partial fulfilment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of our knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

 Shri Harsha S(1NH17EE052)

 Bhanu Prakash Naidu S(1NH18EE400)

 Sadashiv Mantur(1NH18EE404)

 Yashwanth Gowda S(1NH18EE408)



DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE84 Major Project

Report on

Smart Parking Management System Using IOT

Submitted by

Anant Krishna (1NH17EE003)

Jaydeep Maity (1NH17EE022)

K Malsawmkima (1NH17EE024)

Pritam Samanta (1NH17EE042)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



NEW HORIZON
COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA



TOP ENGINEERING COLLEGE OF INDIA as per
NATIONAL INSTITUTIONAL RANKING FRAMEWORK, 2019
Ministry of Human Resource Development, Government of India

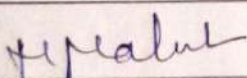
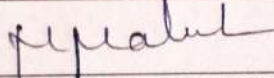
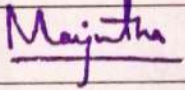
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

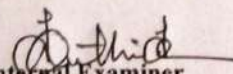
CERTIFICATE

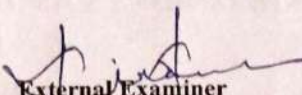
Certified that the Project Phase - II work entitled "SMART PARKING MANAGEMENT SYSTEM USING IOT" carried out by Anant Krishna(1NH17EE003), Jaydeep Maity(1NH17EE022), K. Malsawmkima(1NH17EE024), Pritam Samanta(1NH17EE042) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Dr. M Mahesh	Dr. M Mahesh	Dr. Manjunatha

SEMESTER END EXAMINATION

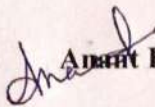

Internal Examiner

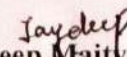

External Examiner

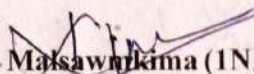
DECLARATION

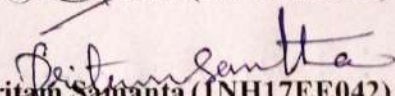
We Anant Krishna (INH17EE003), Jaydeep Maity (INH17EE022), K Malsawmkima (INH17EE024) and Pritam Samanta (INH17EE042) students of New Horizon College of Engineering hereby declare that, this project we work entitled "SMART PARKING MANAGEMENT SYSTEM USING IOT" is an original and bonafide work carried out by us at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of our knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


Anant Krishna (INH17EE003)


Jaydeep Maity (INH17EE022)


K. Malsawmkima (INH17EE024)


Pritam Samanta (INH17EE042)



NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade, Accredited by NBA

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEE84 - Project

Report on

Speed control of DC motor using fuzzy logic controller

Submitted in the partial fulfillment for the award of degree of
Bachelor of Engineering

in

Electrical and Electronics Engineering

Submitted by

LETICIA DISHEL VAS 1NH17EE028

PREKSHA DESHMUKH 1NH17EE041

Internal Guide
Mr. Lithesh J
Assistant professor
New Horizon College
of Engineering

2020-21

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belgaum: 590018





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Accredited by NAAC with 'A' Grade. Accredited by NBA

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that Internship work entitled "Speed control of DC motor using fuzzy logic controller" carried out by Leticia Dishel Vas (INH17EE028), Preksha Deshmukh (INH17EE041) a bonafide Student of New Horizon College of Engineering submitted the report in completion of project at Department of Electrical and Electronics Engineering, New Horizon College of Engineering during the Academic Year 2020-21.

It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for said Degree.

L-11-2-5

Name & Signature of the Guide

pepale

Name Signature of the HOD

Majitha

Signature of the Principal

External Viva

Name of the examiners Signature with date

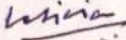
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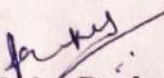
2)

DECLARATION

I Leticia Dishel Vas, Preksha Deshmukh student of New Horizon College of Engineering hereby declare that, this project work entitled "Speed control of a DC motor using fuzzy logic controller" is an original and bonafide work carried out by us in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


Leticia Dishel Vas 1NH17EE028


Preksha Deshmukh 1NH17EE041



DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE75 Project - Phase II

Report on

**AUTOMATIC ACTIVE POWER PHASE
SELECTOR**

Submitted in the partial fulfilment of the Final Year Project -
Phase II

Submitted by

ANAGHA V – 1NH17EE002

SAMPRIITHA G – 1NH17EE015

DHANUSH H M – 1NH18EE401

SHANKAR CHAVAN – 1NH18EE405

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



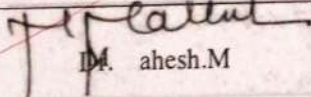

2020-21



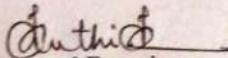
CERTIFICATE

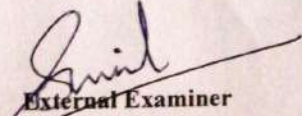
Certified that the phase II work entitled "AUTOMATIC ACTIVE POWER PHASE SELECTOR" carried out by ANAGHA V (INH17EE002), SAMPRITHA G (INH17EE015), DHANUSH H M (INH18EE401), SHANKAR CHAVAN (INH18EE405) bonafidestudents of New horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Vishweshwariah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Mr. Vinod Kumar S	 M. ahesh.M	 Dr. Manjunatha

SEMESTER END EXAMINATION


 Internal Examiner


 External Examiner

DECLARATION

We student of New Horizon College of Engineering hereby declare that, this Project work entitled "AUTOMATIC ACTIVE POWER PHASE SELECTOR" is an original and Bonafide work carried out by us in partial fulfilment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of our knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

ANAGHA V - 1NH17EE002

SAMPRITHA G - 1NH17EE015

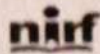
DHANUSH H M - 1NH18EE401

SHANKAR CHAVAN - 1NH18EE405

Anagha V
Sampritha G
Dhanush H M
Shankar Chavan



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Ministry of Human Resource Development, Government of India

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEE75 Project - Phase I

Report on

AUTOMATIC MOVABLE ROAD DIVIDER

Submitted in the partial fulfilment of the Final Year Project - Phase I

Submitted by

SANJAY N S - 1NH17EE051
VINAY - 1NH17EE061
SURESH BABU B P - 1NH18EE406
YOGISHA B R - 1NH18EE409

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

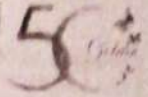
"Jnana Sangama", Belgaum: 590018



2020-21



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New Horizon Knowledge Park, Ring Road, Marathalli
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TOP ENGINEERING COLLEGE OF INDIA
NATIONAL INSTITUTIONAL RANKING FRAMEWORK 2019
Ministry of Human Resource Development, Government of India

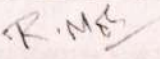
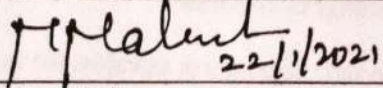
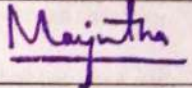
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

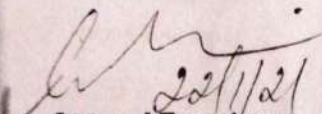
CERTIFICATE

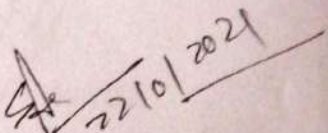
Certified that the Project Phase I work entitled "AUTOMATIC MOVABLE ROAD DIVIDER" carried out by SANJAY N S(INH17EE051), VINAY (INH17EE061), SURESH BABU B P(INH18EE406), YOGISHA B R (INH18EE409), bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

	 22/11/2021	
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Dr.Mohan Das	Dr.Mahesh.M	Dr.MANJUNATHA

SEMESTER END EXAMINATION



22/11/21
Internal Examiner



22/10/2021
External Examiner

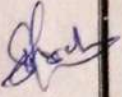
DECLARATION


We SANJAY N S, VINAY, SURESH BABU B P, YOGISHA B R student of New Horizon College of Engineering hereby declare that, this project phase I work entitled "AUTOMATIC MOVABLE ROAD DIVIDER" is an original and bonafide work carried out by me at NEW HORIZON COLLEGE OF ENGINEERING in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

SANJAY N S -1NH17EE051 

VINAY -1NH17EE061 

SURESH BABU B P -1NH18EE406 

YOGISHA B R -1NH18EE409 



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROJECT - PHASE II (EEE84)

REPORT

ON

**AUTOMATIC METER READING BY
USING POWER LINE COMMUNICATION**

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

VISHAL GUPTA	1NH17EE062
DEV RAWAL	1NH17EE012
RACHANA V	1NH17EE043
ANKITHA H	1NH17EE005

2020-21

VISVESVARAYA TECHNOLOGICAL UNIVERSITY



"Jnana Sangama", Belgaum: 590018



DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

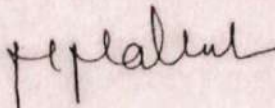
CERTIFICATE

It is certified that the Project work entitled "AUTOMATIC METER READING BY USING POWER LINE COMMUNICATION" carried out by Vishal Gupta (INH17EE062), Dev Rawal (INH17EE012), Rachana V (INH17EE043), Ankitha H (INH17EE012) bonafide students of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

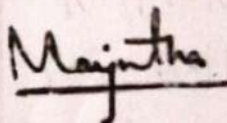
It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.


Name & Signature of
Project Guide

Mr. Vinod Kumar S

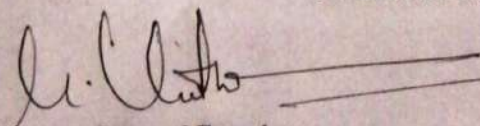

Name & Signature of Head
of the Department

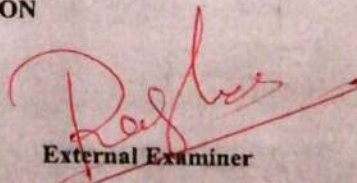
Dr. Mahesh M


Signature of Principal

Dr. Manjunatha

SEMESTER END EXAMINATION

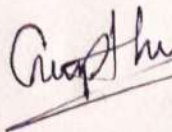

Internal Examiner

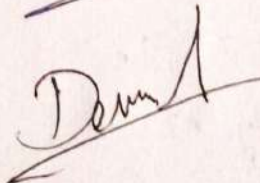

External Examiner

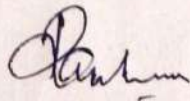
DECLARATION

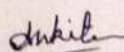
I VISHAL GUPTA, DEV RAWAL, RACHANA V, ANKITHA H students of New Horizon College of Engineering hereby declare that, this project phase II work entitled "AUTOMATIC METER READING BY USING POWER LINE COMMUNICATION" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfilment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

 VISHAL GUPTA -1NH17EE062

 DEV RAWAL -1NH17EE012

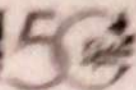
 RACHANA V -1NH17EE043

 ANKITHA H -1NH17EE005



NEW HORIZON
COLLEGE OF ENGINEERING

New Horizon Educational Institutions, 50th Anniversary
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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEE75 Project - Phase II

Report on

7 Level Real time Multi Level inverter

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

RASHMI RAMACHANDRA	1NH17EE045
VANISHREE PARAMASHETTI	1NH17EE059
KAREN JUSTUS	1NH17EE026
TABASSUM	1NH17EE056

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum: 590018



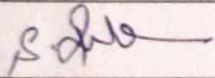
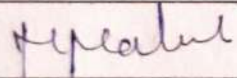
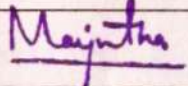
2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

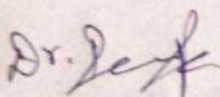
CERTIFICATE

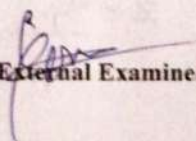
Certified that the Project Phase II work entitled "7 LEVEL REAL TIME MULTI LEVEL INVERTER" carried out by RASHMI RAMACHANDRA (1NH17EE045), VANISHREE PARAMASHETTI(1NH17059), KAREN JUSTUS(1NH17EE026), TABASSUM(1NH17EE056) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Prof. Ramakrishnan	Dr.Mahesh.M	Dr.MANJUNATHA

SEMESTER END EXAMINATION

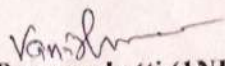

 Internal Examiner


 External Examiner

DECLARATION

I **Vanishree Paramashetti** student of New Horizon College of Engineering hereby declare that, this project phase II work entitled “7 level real time multi level inverter” is an original and bonafide work carried out by me at NEW HORIZON COLLEGE OF ENGINEERING in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


Vanishree Paramashetti (1NH17EE059)



NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE84 Project - Phase II

Report on

DESIGN OF BATTERY MANAGEMENT SYSTEM FOR LOW VOLTAGE STAND ALONE SYSTEM

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

B V NITHISH KUMAR - INH17EE008

HEMANTH I - 1NH17EE018

HITISH G - 1NH17EE019

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade. Accredited by NBA

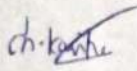
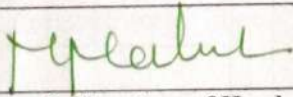
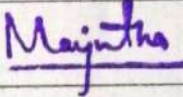
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

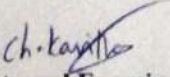
CERTIFICATE

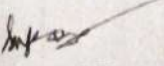
Certified that the Project work entitled "DESIGN OF BATTERY MANAGEMENT SYSTEM FOR LOW VOLTAGE STAND ALONE SYSTEM" carried out by B V NITHISHKUMAR(INH17EE008),HEMANTHI(INH17EE018),HITISHG(INH17EE019) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Mrs.Ch.Kavitha	Dr.Mahesh.M	Dr.MANJUNATHA

SEMESTER END EXAMINATION

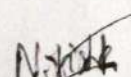

Internal Examiner


External Examiner


DECLARATION

We student of New Horizon College of Engineering hereby declare that, this projectwork entitled "DESIGN OF BATTERY MANAGEMENT SYSTEM FOR LOW VOLTAGE STAND ALONE SYSTEM" is an original and bonafide work carried out by me in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


B V NITHISH KUMAR - INH17EE008


HEMANTH I - 1NH17EE018


NITHISH G - 1NH17EE019



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New Horizon Knowledge Park, Ring Road, Bellandur Post, Bengaluru 560 103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE75 Project - Phase II

Report on

COBOTS TO ASSIST WITH HEALTHCARE WORKERS

Submitted in the partial fulfilment of the Final Year Project – Phase II

Submitted by

SRIDARAN P	1NH17EE037
POOJA V	1NH17EE039
SRIRAM SP	1NH17EE048
SARIKA M	1NH17EE049

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



NEW HORIZON COLLEGE OF ENGINEERING



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Accredited by NBA and NAAC with Grade "A"
New Horizon Knowledge Park, Ring Road, Bellandur Post, Bengaluru 560 103

BONAFIDE CERTIFICATE

This is to certify that the project report entitled, "COBOTS TO ASSIST WITH HEALTHCARE WORKERS" is a bonafide record of work of the following candidates who carried out the project work under my supervision during 2020- 2021:

SRIDARAN P	1NH17EE037
POOJA V	1NH17EE039
SRIRAM SP	1NH17EE048
SARIKA M	1NH17EE049

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

in ELECTRICAL AND ELECTRONICS ENGINEERING

of New Horizon College of Engineering, Bengaluru of Visvesvaraya Technological University, Belgaum during the Even semester, academic year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.

Signature of the project Guide

Dr. A Singaravelan

Signature of the Head of the
Department

Dr. M. Mahesh


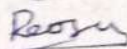
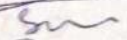

Signature of the Principal

Dr. Manjunatha

DECLARATION

We Sridaran P-1NH17EE037, Pooja V- 1NH17EE039, Sriram SP-1NH17EE048, Sarika M-1NH17EE049 students of New Horizon College of Engineering hereby declare that, this project work entitled "A COLLABORATIVE ROBOT TO SERVE PATIENTS AND TO COLLECT INFECTIOUS WASTAGE AT THE ISOLATION" is an original and bonafide work carried out at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of our knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

SRIDARAN P		1NH17EE037
POOJA V		1NH17EE039
SRIRAM SP		1NH17EE048
SARIKA M		1NH17EE049



Center Ring Road, Belgaum, Karnataka - 590001

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEER5 Project - Phase II

Report on

AUTOMATION USING VISION SYSTEM

Submitted in the partial fulfillment of the Final Year Project - Phase II

Submitted by

ANKUR YADAV 1NH17EE006

POOJA KUMAR KAGE 1NH17EE038

SANGAM JAIN 1NH17EE050

SOHAN A JINGADE 1NH17EE054

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum: 590018



2020-21



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

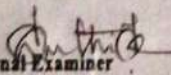
CERTIFICATE

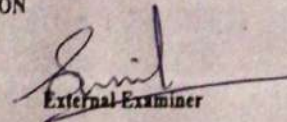
Certified that the Project Phase II work entitled "AUTOMATION USING VISION SYSTEM" carried out by ANKUR YADAV(INH17EE006), POOJA KUMAR KAGE (INH17EE038), SANGAM JAIN(INH17EE050), SOHAN A JINGADE (INH17EE054) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Mr. Vinod Kumar S	Dr. Mahesh.M	Dr. MANJUNATHA

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I ANKUR YADAV(INH17EE006), POOJA KUMAR KAGE(INH17EE038) SANGAM JAIN (INH17EE050) SOHAN A JINGADE (INH17EE54) student of New Horizon College of Engineering hereby declare that, this project phase II work entitled "AUTOMTION USING VISION SYSTEM" is an original and bonafide work carried out by me at NEW HORIZON COLLEGE OF ENGINEERING in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

ANKUR YADAV INH17EE006

POOJA KUMAR KAGE INH17EE038

SANGAM JAIN INH17EE050

SOHAN A JINGADE INH17EE054

Ankur Yadav

Pooja

Sangam

Sohan



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEE75 Project - Phase I

Report on

**AUTOMATIC POWER FACTOR
COMPENSATION FOR INDUSTRIAL POWER**

Submitted in the partial fulfilment of the Final Year Project - Phase I

Submitted by

NITHIN C INH17EE414

HITLER SAHANI MANJHI INH16EE065

HARSHAVARDHAN S INH17EE021

VISHNU KUMAR KANTI INH15EE067

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum: 590018

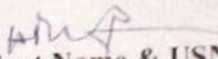


2020-21

DECLARATION

I Hitler Sahani Majhi student of New Horizon College of Engineering hereby declare that, this project phase I work entitled "AUTOMATIC POWER FACTOR COMPENSATION FOR INDUSTRIAL POWER" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


Student Name & USN

Hitler Sahani Majhi (1NH16EE065)



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEE75 Project - Phase II

Report on

**DESIGN OF AUTOMATIC HOME ENERGY MANAGEMENT
SYSTEM USING RENEWABLE ENERGY FOR EFFECTIVE ENERGY
CONSERVATION**

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

Vikeshkumar	1NH18EE421
Ravi S.H	1NH18EE419
Altamash Pasha	1NH16EE062
Shreyas Y.N	1NH17EE749

2020-21

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"Jnana Sangama", Belgaum: 590018





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Ministry of Human Resource Development, Government of India



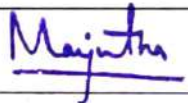
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

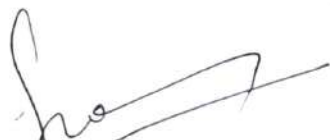
CERTIFICATE

Certified that the Project Phase II work entitled "DESIGN OF AUTOMATIC HOME ENERGY MANAGEMENT SYSTEM USING RENEWABLE ENERGY FOR EFFECTIVE ENERGY CONSERVATION" carried out by VIKESHKUMAR(1NH18EE421), ALTAMASH PASHA(1NH16EE062), SHREYAS YN(1NH17EE749), RAVI SH(1NH18EE419) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Prof. ANITHA A	Dr. MAHESH.M	Dr. MANJUNATHA

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

VIKESHKUMAR, ALTAMASH PASHA, SHREYAS YN, RAVI S H

Student of New Horizon College of Engineering hereby declare that, this project phase II work entitled "**DESIGN OF AUTOMATIC HOME ENERGY MANAGEMENT SYSTEM USING RENEWABLE ENERGY FOR EFFECTIVE ENERGY CONSERVATION**" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

VIKESHKUMAR 1NH18EE421
RAVI SH 1NH18EE419
SHREYAS YN 1NH17EE749
ALTAMASH PASHA 1NH16EE062

VK
Ravi
Shre
Pasha



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Ministry of Human Resource Development, Government of India

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEE75 Project

Report on

**INSTANT DISINFECTION AND
SANITIZATION ROBOT**

Submitted upon the fulfillment of the Final Year Project

Submitted by

ANSHUMAN BISWAL 1NH17EE704

AMARTYA THAKUR 1NH17EE703

UTKARSH BHARDWAJ 1NH17EE065

HIMAGANI MISHRA 1NH17EE715

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





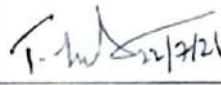
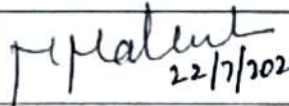
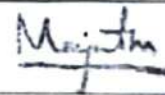
nirf TOP ENGINEERING COLLEGE OF INDIA as per
NATIONAL INSTITUTIONAL RANKING FRAMEWORK 2019
Ministry of Human Resource Development, Government of India

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

CERTIFICATE

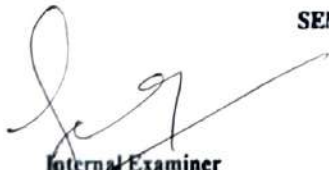
Certified that the Final Year Project work entitled "INSTANT DISINFECTION AND SANITIZATION ROBOT" carried out by ANSHUMAN BISWAL (1NH17EE704), AMARTYA THAKUR(1NH17EE703), UTKARSH BHARDWAJ(1NH17EE065), HIMAGANI MISHRA(1NH17EE715) bonafide Student(s) of New Horizon College of Engineering submitted report upon fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraya Technological University, Belgaum during the Year 2021.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

 22/7/21	 22/7/2021	
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Muni Prakash T	Dr. Mahesh.M Head of the Department	Dr. MANJUNATHA

Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, Kadubisanahalli, Bellandur Post
Bangalore - 550103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner

NHCE-EEE


External Examiner



NEW HORIZON COLLEGE OF ENGINEERING

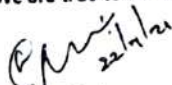
Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA




LIBRARY & INFORMATION CENTRE CERTIFICATE ON PLAGIARISM CHECK

1	Name of the Student	ANSHUMAN BISWAL AMARTYA THAKUR UTKARSH BHARDWAJ HIMAGANI MISHRA
2	USN	1NH17EE704 1NH17EE703 1NH17EE065 1NH17EE715
3	Course	UG
4	Department	EEE
5	Mini Projects/Project Reports/ Ph.D Synopsis/ Ph.D Thesis/ Paper Publication (N/I)	Final Year Project Report
6	Title of the Document	INSTANT DISINFECTION AND SANITIZATION ROBOT
7	Similar Content(%)Identified	17%
8	Acceptable maximum limit (%) of similarity	25%
9	Date of Verification	13.07.2021
10	Checked by (Name with signature)	Dr. N.Prabhakaran
11	Specific remarks, if any :	No

We have verified the contents as summarized above and certified that the statement made above are true to the best of our knowledge and belief.


Dr. N. Prabhakaran
Plagiarism - Coordinator


22/7/2021
Dr. M. Mahesh
HOD - EEE
Head of the Department
Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, Kadubisanahalli, Bellary (Post)
Bangalore - 560011, Karnataka, India



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**DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING**

EEE84 Project - Phase II

Report on

AUTOMATIC FACE MASK DETECTION

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

RANDHIR KUMAR YADAV

1NH17EE741

MOHAMMED ARBAS

1NH17EE066

ROHAN ASHISH

1NH16EE743

2020-2021

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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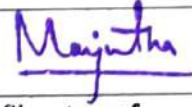
Outer Ring Road, Bellandur, Bengaluru - 560103

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
 ENGINEERING**

CERTIFICATE

Certified that the Project work entitled "AUTOMATIC FACE MASK DETECTION " carried out by: RANDHIR KUMAR YADAV (INH16EE741), MOHAMMED ARBAS (INH17EE066), ROHAN ASHISH (INH16EE743), bonafide student(s) of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-2021.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Dr. Deepa B	Dr. MAHESH M	Dr.MANJUNATHA

SEMESTER END EXAMINATION


 Internal Examiner


 External Examiner



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Accredited by MAAC with 'A' Grade, Accredited by NBA

DECLARATION

We **RANDIR KUMAR YADAV, MOHAMMED ARBAS, ROHAN ASHISH** students of New Horizon College of Engineering hereby declare that, this project work entitled "**AUTOMATIC FACE MASK DETECTION**" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaumi.

We also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

RANDIR KUMAR YADAV INH17EE741 *Res*

MOHAMMED ARBAS INH17EE066 *Md*

ROHAN ASHISH INH17EE743 *Roh*



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Ministry of Human Resource Development, Government of India

Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE84 Project - Phase II

Report on

INITIALISE OF COCKPIT VOICE RECORDER

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

SUPROVO BANERJEE 1NH16EE749

SUMIT BHAWAL 1NH17EE753

DILKASH IMAM 1NH16EE715

2020-2021

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



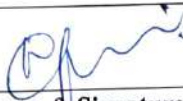
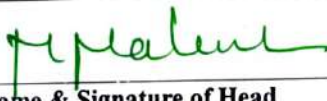
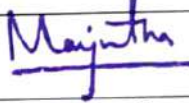


DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE


Certified that the Project work entitled "INITIALISE OF COCKPIT VOICE RECORDER" carried out by: SUPROVO BANERJEE (1NH16EE749), SUMIT BHAWAL (1NH17EE753), DILKASH IMAM (1NH16EE715), bonafide student(s) of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-2021.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Dr. N Prabhakaran	Dr. MAHESH M	Dr.MANJUNATHA

SEMESTER END EXAMINATION


 Internal Examiner


 External Examiner



NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade. Accredited by NBA

DECLARATION

We SUPROVO BANERJEE ,SUMIT BHAWAL DILKASH IMAM, student of New Horizon College of Engineering here by declare that, this project work entitled "INITIALISE OF COCKPIT VOICE RECODER" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

We also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

1.) SUPROVO BANERJEE - 1NH16EE749

2.) SUMIT BHAWAL - 1NH17EE753

3.) DILKASH IMAM - 1NH16EE715



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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE75 Project - Phase I

Report on
IOT BASED POWER MONITORING SYSTEM FOR SMART GRID
APPLICATION

Submitted in the partial fulfillment of the Final Year Project - Phase II

Submitted by

NEERAJ .R	1NH17EE729
ABDUL SHUKOOR	1NH17EE700
MADHU .M	1NH17EE720
SUHAS K SIDDAMAL	1NH17EE752

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



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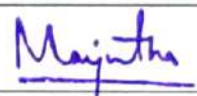
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE

Certified that the Project Phase I work entitled "IOT BASED POWER MONITORING SYSTEM FOR SMART GRID APPLICATION" carried out by NEERAJ. R (1NH17EE729), MADHU. M (1NH17EE720), ABDUL SHUKOOR(1NH17EE700),SUHAS K. SIDDAMAL(1NH17EE752), bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Mr.SUNIL.K	Dr.Mahesh.M	Dr.MANJUNATHA

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I NEERAJ.R, MADHU.M, ABDUL SHUKOOR, SUHAS .K SIDDAMAL student of New Horizon College of Engineering hereby declare that, this project phase I work entitled "**IOT BASED POWER MONITORING SYSTEM FOR SMART GRID APPLICATION**" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

NEERAJ .R

ABDUL SHUKOOR

MADHU .M

SUHAS K SIDDAMAL

1NH17EE729

1NH17EE700

1NH17EE720

1NH17EE752

Neeraj

Abdul

Madhu

Suhas



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE75 Project - Phase II

Report on

**2-WIRE AC DISTRIBUTION FOR
PROTECTION -USING ISOLATION
TRANSFORMER**

Submitted in the partial fulfillment for the award of degree of Bachelor of
Engineering in Electrical and Electronics Engineering.

Submitted by

THOMAS ALLWIN ANTO – 1NH17EE754

ABHILASH MITHARE – 1NH17EE701

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



LIBRARY & INFORMATION CENTRE CERTIFICATE ON PLAGIARISM CHECK

1	Name of the Student	ABHILASH MITHARE THOMAS ALLWIN ANTO
2	USN	1NH17EE701 1NH17EE754
3	Course	UG
4	Department	EEE
5	Mini Projects/Project Reports/ Ph.D Synopsis/ Ph.D Thesis/ Paper Publication (N/I)	Final Year Project Report
6	Title of the Document	2-WIRE AC DISTRIBUTION SYSTEM FOR PROTECTION USING ISOLATION TRANSFORMER
7	Similar Content(%)identified	13%
8	Acceptable maximum limit (%) of similarity	25%
9	Date of Verification	23.07.2021
10	Checked by (Name with signature)	Dr. N.Prabhakaran
11	Specific remarks, if any :	No

We have verified the contents as summarized above and certified that the statement made above are true to the best of our knowledge and belief.

Dr. N. Prabhakaran
23/7/21
Dr. N. Prabhakaran
Plagiarism - Coordinator

Dr. M. Mahesh
Dr. M. Mahesh
HOD - EEE

Head of the Department
Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, Kadubisanahalli, Bellary
Bengaluru - 560103, Karnataka



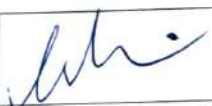
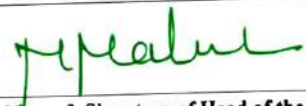
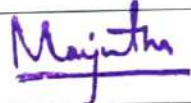
nirf **TOP ENGINEERING COLLEGE OF INDIA** as per
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Ministry of Human Resource Development, Government of India
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE

Certified that the Project Phase I work entitled "2-WIRE AC DISTRIBUTION FOR PROTECTION -USING ISOLATION TRANSFORMER" carried out by **THOMAS ALLWIN ANTO (1NH17EE754) ABHILASH MITHARE(1NH17EE701)** bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Dr. Guna Priya B	Dr.Mahesh.M	Dr.Manjunatha

SEMESTER END EXAMINATION


Internal Examiner


External Examiner



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROJECT - PHASE II (EEE84)

REPORT

ON

SMART MEDICAL ASSISTANT USING IOT

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

ABY K MATHEW	1NH17EE702
KISHORE KUMAR S	1NH17EE719
SRI KUBER SINGH C	1NH17EE750

2020-21

VISVESVARAYA TECHNOLOGICAL UNIVERSITY.

"Jnana Sangama", Belgaum: 590018





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

It is certified that the Project work entitled "Smart Medical Assistant using IoT" carried out by Aby K Mathew (1NH17EE702), Kishore Kumar S (1NH17EE719), Sri Kuber Singh C (1NH17EE750) bonafide students of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.

Name & Signature of
Project Guide

Dr. R Mohandas

Name & Signature of Head
of the Department

Dr. Mahesh M

Signature of Principal

Dr. Manjunatha

SEMESTER END EXAMINATION

Internal Examiner

External Examiner

DECLARATION

I. **ABY K MATHEW, KISHORE KUMAR S, SRI KUBER SINGH C**, students of New Horizon College of Engineering hereby declare that, this project phase I work entitled "SMART MEDICAL ASSISTANT USING IOT" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfilment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



ABY K MATHEW – 1NH17EE702



KISHORE KUMAR S – 1NH17EE719



SRI KUBER SINGH C – 1NH17EE750

Department of Electrical and Electronics Engineering

EEE75 Project- Phase 2

Report on

AI BASED SMART MIRROR USING RASPBERRY PI

Submitted by

BHARATH SURYA	1NH17EE706
KAVITA SAH	1NH17EE718
RAKSHA S	1NH17EE745
SHAUN PHILIPOSE JOHN	1NH17EE748

Under the Guidance of
Dr. Gunapriya Parthasarathy
Associate Professor

Dissertation submitted in partial fulfillment of the requirements
For the award of the degree of

BACHELOR OF ENGINEERING
in
ELECTRICAL AND ELECTRONICS ENGINEERING

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum – 590018, Karnataka, India



2020-2021



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LIBRARY & INFORMATION CENTRE CERTIFICATE ON PLAGIARISM CHECK

1	Name of the Student	Kavita Sah
2	USN	1NH17EE718
3	Course	UG
4	Department	EEE
5	Mini Projects/Project Reports/ Ph.D Synopsis/ Ph.D Thesis/ Paper Publication (N/I)	Final Year Project
6	Title of the Document	AI Based Smart mirror using raspberry pi
7	Similar Content(%)identified	23%
8	Acceptable maximum limit (%) of similarity	25%
9	Date of Verification	25.07.2021
10	Checked by (Name with signature)	Dr. N.Prabhakaran
11	Specific remarks, if any :	No

We have verified the contents as summarized above and certified that the statement made above are true to the best of our knowledge and belief.


Dr. N.Prabhakaran
Plagiarism - Coordinator


Dr. M. Mahesh
HOD - EEE



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Accredited by NBA and NAAC with Grade 'A'
New Horizon Knowledge Park, Ring Road, Sateenur Post, Bengaluru 560 103

BONA FIDE CERTIFICATE

This is to certify that the project report entitled, "AI BASED SMART MIRROR USING RASPBERRY PI" is a bonafide record of work of the following candidates who carried out the project work under my supervision during 2020-2021:

INHI7EE706
BHARATH SURYA
INHI7EE718
KAVITA SAH
INHI7EE745
RAKSHA S
INHI7EE748
SHAUN PHILPOSE JOHN

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of
BACHELOR OF ENGINEERING

IN ELECTRICAL AND ELECTRONICS ENGINEERING

in **ELECTRICAL AND ELECTRONICS ENGINEERING**, Bengaluru of Visvesvaraya Technological University,
of New Horizon College of Engineering, Bengaluru of Visvesvaraya Technological University.

Belgaum during the Even semester, academic year 2020-21.
It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.

Signature of the project Guide

Signature of the Head of the Department

Signature of the Principal

Dr. Gunapriya Parthasarathy

Dr. M. Mahesh

Dr. Manjunatha

Head of the Department
Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, Kadubisanahalli, Bellandur Post
Bangalore - 560103, Karnataka, India



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Ministry of Human Resource Development, Government of India

Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE84 Project - Phase II

Report on

**IOT BASED POWER LINE MONITORING AND
CONTROL SYSTEM FOR AC LOADS**

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

C. ARUN SAI INH17EE709

CH. GOWTHAM CHANDU INH17EE710

N. PRUTHVEESH INH17EE726

O. GOPI KRISHNA INH17EE731

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



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Ministry of Human Resource Development, Government of India


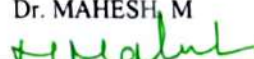
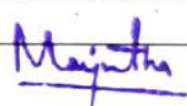
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the Project Phase II work entitled "IOT BASED POWER LINE MONITORING AND CONTROL SYSTEM FOR AC LOAD" carried out by C ARUN SAI(INH17EE709), CH GOUTHAM CHANDU(INH17EE710), N PRUTHVEESH(INH17EE726), O GOPI KRISHNA(INH17EE731), bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
MR. T MUNI PRAKASH 	Dr. MAHESH M 	Dr. MANJUNATHA 

SEMESTER END EXAMINATION



Internal Examiner



External Examiner

DECLARATION

I C. ARUN SAI(1NH17EE709), CH GOUTHAM CHANDU(1NH17EE710), N.PRUTHVEESH(1NH17EE726), O GOPI KRISHNA(1NH17EE731) student of New Horizon College of Engineering hereby declare that, this project phase II work entitled "IOT BASED POWER LINE MONITORING AND CONTROL SYSTEM FOR AV LOAD" is an original and bonafide work carried out by me at NEW HORIZON COLLEGE OF ENGINEERING in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

C ARUN SAI 1NH17EE709

C. Arun

CH GOWTHAM CHANDU 1NH17EE710

Gowtham

N PRUTHVEESH 1NH17EE72

Pruthveesh

O GOPI KRISHNA 1NH17EE731

Gopi Krishna



NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
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Bengaluru – 560103, Karnataka, India

Department of Electrical and Electronics Engineering

EEE84 Project – Phase II

Report on

IMPLEMENTATION OF SMART E-VEHICLE CHARGING STATION POWERED BY RENEWABLE ENERGY

Submitted by

VINITH G A	1NH17EE756
PRAGATHI PRAKASH	1NH17EE733
MEGHANA I L	1NH17EE724
DIVYA S V	1NH17EE713

Under the Guidance of
Dr. Vinoth Kumar K
Associate Professor

Dissertation submitted in partial fulfillment of the requirements
For the award of the degree of

BACHELOR OF ENGINEERING
in
ELECTRICAL AND ELECTRONICS ENGINEERING

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum – 590018, Karnataka, India



2020-2021



NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade, Accredited by NBA

Bengaluru – 560103, Karnataka, India

BONAFIDE CERTIFICATE

This is to certify that the project report entitled, "Implementation of Smart E-vehicle charging Station powered by Renewable energy" is a bonafide record of work of the following candidates who carried out the project work under my supervision during 2020-2021:

VINITH G A	1NH17EE756
PRAGATHI PRAKASH	1NH17EE733
MEGHANA I L	1NH17EE724
DIVYA S V	1NH17EE713

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

in ELECTRICAL AND ELECTRONICS ENGINEERING

of New Horizon College of Engineering, Bengaluru of Visvesvaraya Technological University, Belgaum during the even semester, academic year 2020-21 .

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

Signature of the project Guide

Dr. VINOTH KUMAR K

Signature of the Head of the Department

Dr. M. Mahesh

Signature of the Principal

Dr. Manjunatha

(Internal Examiner)

Semester End Examination held on 03/08/2021

(External Examiner)

ACKNOWLEDGEMENT

With immense pleasure and deep sense of gratitude, we wish to express sincere thanks to our supervisor **Dr. VINOTH KUMAR K**, Associate Professor, Department of Electrical and Electronics Engineering, New Horizon College of Engineering, without his motivation and continuous encouragement, this project would not have been successfully completed.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. Mohan Manghnani** for motivating us to carry out research in the NHCE and for providing with infrastructural facilities and many other resources needed for our project work.

We express my sincere thanks to **Dr. M. Mahesh**, HoD, Department of Electrical and Electronics Engineering, New Horizon College of Engineering for his kind words of support and encouragement.

We wish to extend my profound sense of gratitude to my parents for all the sacrifices they made during our project and providing us with moral support and encouragement whenever required.

Date: 22.01.2021
Place: Bengaluru

VINITH G A	1NH17EE756
PRAGATHI PRAKASH	1NH17EE733
MEGHANA I L	1NH17EE724
DIVYA S V	1NH17EE713

Vinith
Pragathi
Meghana
Divya



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Ministry of Human Resource Development, Government of India

Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE75 Project - Phase II

Report on

“Automated Agribot for Agriculture Automation”

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

NAME: Suhas G USN: 1NH17EE751

NAME: Jyothi Patil USN: 1NH17EE716

NAME: Jagadeesh USN: 1NH18EE415

NAME: Chethan H E USN: 1NH18EE413

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



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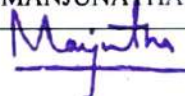
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE


Certified that the Project Phase II work entitled "Automated Agribot for Agriculture Automation" carried out by Suhas G(1NH17EE751), Jyothi Patil(1NH17EE716), Jagadeesh(1NH18EE415), Chethan H E(1NH18EE413) bonafide Students of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Mr.S Inbasakaran 	Dr.Mahesh.M 	Dr.MANJUNATHA 

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I Suhas G(INH17EE751), Jyothi Patil(INH17EE716), Jagadeesh(INH18EE415), Chethan H E(INH18EE413) students of New Horizon College of Engineering hereby declare that, this project phase II work entitled "Automated Agribot for Agriculture Automation" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

NAME:Suhas G USN:INH17EE751 *Suhas*
NAME:Jyothi Patil USN:INH17EE716 *Jyothi*
NAME:Jagadeesh USN:INH18EE415 *Jagadeesh*
NAME:Chethan H E USN:INH18EE413 *Chethan*



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

EEE84 Project - Phase II

Report on

**INTELLIGENT AGRICULTURE FIELD
MONITORING SYSTEM BASED ON IOT
TECHNOLOGY**

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

VENKATESH M 1NH18EE420

MAHAN H S 1NH17EE721

ABDUL RAZAK 1NH18EE411

2020-21

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018








Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the Project work entitled “INTELLIGENT AGRICULTURE FIELD MONITORING SYSTEM BASED ON IOT TECHNOLOGY” carried out by VENKATESH M (INH18EE420), MAHAN H S (INH17EE721), ABDUL RAZAK (INH18EE411), bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Dr.SUJITHA.S	Dr.MAHESH.M	Dr.MANJUNATHA

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I VENKATESH M, MAHAN H S, ABDUL RAZAK student of New Horizon College of Engineering hereby declare that, this project phase I work entitled "INTELLEGENT AGRICULTURE FIELD MONITORING SYSTEM BASED ON IOT TECHNOLOGY" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basisof which a degree or award was conferred on an earlier occasion by any student.

VENKATESH M INH18EE420



MAHAN H S INH17EE721



ABDUL RAZAK INH18EE411





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Outer Ring Road, Bellandur, Bengaluru – 560103
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE75 Project - Phase II

Report on

SMART IRRIGATION SYSTEM

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

MANOJKUMAR S BIRADAR 1NH17EE723

PRIYANSHU RANJAN 1NH17EE735

SAHIL RAVI KUMAR 1NH17EE746

SANKET KUMAR SINGH 1NH17EE747

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the Project Phase I work entitled "SMART IRRIGATION SYSTEM" carried out by Manojkumar S Biradar(1NH17EE723),Priyanshu Ranjan (1NH17EE735),Sahil Ravi Kumar (1NH17EE746),Sanket Kumar Singh(1NH17EE747) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Mr.B S Mohan	Dr.Mahesh.M 	Dr.MANJUNATHA

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I Sahil Ravi Kumar student of New Horizon College of Engineering hereby declare that, this project phase I work entitled "SMART IRRIGATION SYSTEM" is an original and bonafide work carried out by me at College name /Industry name in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



Sahil Ravi Kumar (1NH17EE746)



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Ministry of Human Resource Development, Government of India

Outer Ring Road, Bellandur, Bengaluru – 560103

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEE84 Project - Phase II

Report on

**A NOVEL FAULT TOLERANT SOLUTION
FOR UNDERGROUND TRANSMISSION
SYSTEM MONITORED BY GSM**

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

Vandita Manohar 1NH17EE755

Muhammad Maaz 1NH17EE725

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2020-21



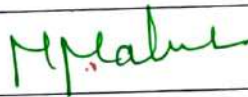
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Ministry of Human Resource Development, Government of India
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE


Certified that the Project Phase I work entitled "A NOVEL FAULT TOLERANT SOLUTION FOR UNDERGROUND TRANSMISSION SYSTEM MONITORED BY GSM" carried out by **Vandita Manohar (1NH17EE755)** **Muhammad Maaz (1NH17EE725)** bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase II work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Ms. Roopa C	Dr. Mahesh.M	Dr. MANJUNATHA

SEMESTER END EXAMINATION


Internal Examiner


External Examiner



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Accredited by NAAC with 'A' Grade & Accredited by NBA



LIBRARY & INFORMATION CENTRE CERTIFICATE ON PLAGIARISM CHECK

1	Name of the Student	Vandita Manohar Muhammad Maaz
2	USN	1NH17EE755 1NH17EE725
3	Course	UG
4	Department	EEE
5	Mini Projects/Project Reports/ Ph.D Synopsis/ Ph.D Thesis/ Paper Publication (N/I)	Final Year Project Report
6	Title of the Document	A NOVEL FAULT TOLERANT SOLUTION FOR UNDERGROUND TRANSMISSION SYSTEM MONITORED BY GSM
7	Similar Content(%)identified	5%
8	Acceptable maximum limit (%) of similarity	25%
9	Date of Verification	25.07.2021
10	Checked by (Name with signature)	Dr. N.Prabhakaran
11	Specific remarks, if any :	No

We have verified the contents as summarized above and certified that the statement made above are true to the best of our knowledge and belief.


Dr. N. Prabhakaran
Plagiarism - Coordinator

Dr. M. Mahesh
HOD - EEE



**AUTOMATION SYSTEM IN AGRICULTURAL FIELD FOR
EFFECTIVE POWER CONSUMPTION**

A PROJECT

REPORT

Submitted by

RISHABH YADAV – 1NH17EE742

PRACHI ANIL PANDIT – 1NH17EE732

NEERAJ – 1NH17EE728

RAMYA MANUR – 1NH17EE740

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Project Guide
Mr. MOHAN BS

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
“Jnana Sangama”, Belgaum: 590018



Bonafide Certificate

This is to Bonafide that the mini project report entitled "**AUTOMATION SYSTEM IN AGRICULTURAL FIELD FOR EFFECTIVE POWER CONSUMPTION**" submitted by Rishabh Yadav, Prachi Anil Pandit, Neeraj Patil, Ramya Manur, Department of Electrical Engineering, New Horizon College of Engineering, Engineering, is a record of bonafide work carried out by him/her under my supervision, as per the NHCE code of academic and research ethics.

The contents of this report have not been submitted and will not be submitted either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university. The project report fulfils the requirements and regulations of the institution and in my opinion meets the necessary standards for submission.



Mr. Mohan B.S.
Guide



Dr. Mahesh M
HoD



Internal



External



NEW HORIZON
COLLEGE OF ENGINEERING



Acknowledgement

With immense pleasure and deep sense of gratitude, I wish to express my sincere thanks to our supervisor **Mr. Mohan B.S.**, Professor, Department of Electrical Engineering, New Horizon College of Engineering. Without his motivation and continuous encouragement, this mini project would not have been successfully completed.

I am grateful to the Chairman of New Horizon Educational Institution, **Dr. Mohan Manghnani** for motivating me to carry out research in the NHCE and for providing me with infrastructural facilities and many other resources needed for my project work.

I express my sincere thanks to **Dr. Mahesh.M** HoD, Department of Electrical Engineering, New Horizon College of Engineering for his kind words of support and encouragement.

I wish to extend my profound sense of gratitude to my parents for all the sacrifices they made during my project and providing me with moral support and encouragement whenever required.

Date: 23 Jan 2021

Place: Bangalore

YOUR NAME(s)

RISHABH YADAV	1NH17EE742
PRACHI ANIL PANDIT	1NH17EE732
NEERAJ	1NH17EE728
RAMYA MANUR	1NH17EE740

Rishabh
Prachi
Neeraj
Ramya



NEW HORIZON
COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA



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Ministry of Human Resource Development, Government of India

Outer Ring Road, Bellandur, Bengaluru – 560103

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEE75 Project - Phase I

Report on

**AGRICULTURAL 3 PHASE MOTOR
CONTROL SYSTEM**

Submitted in the partial fulfilment of the Final Year Project - Phase I

Submitted by

RAHUL RAJKUMAR (1NH18EE418)

VINOD CHOUDHARY'S (1NH17EE757)

SVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum: 590018






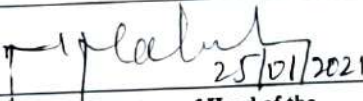
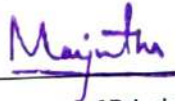
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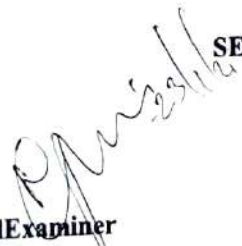
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE

Certified that the Project Phase I work entitled "Agricultural 3 Phase Motor Control System" carried out by Rahul Rajkumar (INH18EE418), Vinod Choudhary S (INH17EE757), bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

 23/1	 25/01/2021	
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Mr. Vinod Kumar S	Dr. Mahesh.M	Dr. MANJUNATHA




Internal Examiner


23/01/21
External Examiner

DECLARATION

I Rahul Rajkumar (INH18EE418), Vinod Choudhary S (INH17EE757) student of New Horizon College of Engineering hereby declare that, this project phase I work entitled "AGRICULTURAL 3 PHASE MOTOR CONTROL SYSTEM" is an original and bonafide work carried out by me at NEW HORIZON COLLEGE OF ENGINEERING in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



Student Name & USN
Rahul Rajkumar (INH18EE418),
Vinod Choudhary S (INH17EE757)



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

EEE75 Project - Phase II

Report on

IMPLEMENTATION OF G to V & V to G FOR EV's

Submitted in the partial fulfilment of the Final Year Project - Phase II

Submitted by

DARSHAN GOWDA 1NH17EE711

BEEMANAGOUDA 1NH18EE412

HEMANTH KG 1NH18EE414

JAYA KUMAR 1NH18EE416

2020-21

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum: 590018





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Ministry of Human Resource Development, Government of India




Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the Project Phase II work entitled "IMPLEMENTATION OF GRID TO VEHICLE AND VEHICLE TO GRID FOR EV's" carried out by DARSHAN GOWDA(1NH17EE711), BEEMANNA GOUDA(1NH18EE412), HEMANTHKG (1NH18EE414), JAYAKUMAR(1NH18EE416) bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visveswararajah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

		
Name & Signature of the Project Guide	Name & Signature of Head of the Department	Signature of Principal
Prof. Rashmi	Dr. MAHESH.M	Dr. MANJUNATHA

SEMESTER END EXAMINATION



Internal Examiner



External Examiner

DECLARATION

DARSHAN, BHEEMANNA GOUDA, HEMANTH , JAYA KUMAR

Student of New Horizon College of Engineering hereby declare that, this project phase II work entitled "**IMPLEMENTATION OF G TO V AND V TO G BY USING BI-DIRECTIONAL CONVERTER FOR EV's**" is an

original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

DARSHAN 1NH17EE711 *Darshan*
BHEEMA 1NH18EE412 *Bheema*
HEMANTH 1NH18EE414 *Hemant*
JAYA KUMAR 1NH18EE416 *Jaya*



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New Horizon Knowledge Park, Ring Road, Bellandur Post, Bengaluru 560 103

Department of Electrical and Electronics Engineering

EEE84 Project – Phase 2

Report on

Energy absorption and resilience using solar tracker

Submitted by

BALAJI R	1NH17EE737
NIVEDITA S	1NH17EE730
PUNEETH S	1NH17EE736
NAYANA K	1NH17EE727

Under the Guidance of

Mr.Mohan B.S

Associate Professor

Dissertation submitted in partial fulfillment of the requirements
for the award of the degree of

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

-JnanaSangamal, Belgaum – 590018, Karnataka, India



2020-2021



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Accredited by JQA and NAAC with Grade 'A'
New Horizon Knowledge Park, Ring Road, Bellandur Post, Bengaluru-560 103

BONAFIDE CERTIFICATE

This is to certify that the project report entitled, **-Implementation of Energy absorption and resilience using solar tracker** is a bonafide record of work of the following candidates who carried out the project work under my supervision during 2020- 2021:

BALAJI R	INH17EE737
NIVEDITA S	INH17EE730
NAVANA K	INH17EE727
PUNEETH S	INH17EE730

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

in ELECTRICAL AND ELECTRONICS ENGINEERING

of New Horizon College of Engineering, Bengaluru of Visvesvaraya Technological University,
Belgaum during the Even semester, academic year 2020-21 .

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project phase I work prescribed for said Degree.

Mohan B.S

Signature of the project Guide

Mr.Mohan B.S

Dr. M. Mahesh

Signature of the Head of the
Department

Dr. M. Mahesh

Dr. Manjunatha

Signature of the Principal

Dr. Manjunatha

Shree

(Internal Examiner)

Semester End Examination held on 03/08/2021

Shree

(External Examiner)

ACKNOWLEDGEMENT

With immense pleasure and deep sense of gratitude, we wish to express sincere thanks to our supervisor **Mr Mohan B.S**, Associate Professor, Department of Electrical and Electronics Engineering, New Horizon College of Engineering, without his motivation and continuous encouragement, this mini project would not have been successfully completed.

We grateful to the Chairman of New Horizon Educational Institution, **Dr. Mohan Manghnani** for motivating us to carry out research in the NHCE and for providing with infrastructural facilities and many other resources needed for our project work.

We express my sincere thanks to **Dr. M. Mahesh**, HoD, Department of Electrical and Electronics Engineering, New Horizon College of Engineering for his kind words of support and encouragement.

We wish to extend my profound sense of gratitude to my parents for all the sacrifices they made during our project and providing us with moral support and encouragement whenever required.

Date: 07.07.2021

Place: Bengaluru

Balaji BALAJI R 1NH17EE737
Nivedita NIVEDITA 1NH17EE730
Nayana K NAYANA K 1NH17EE727
Puneetha PUNEETH S 1NH17EE730