



S.J.P.N. Trust's

**HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

## **CERTIFICATE**

Certified that the Project Phase-II work entitled

**“Design and Implementation of Hybrid Powered Multifunction Bicycle”**

carried out by

<b>Mr. Chidanand Harugeri</b>	<b>2HN19EE003</b>
<b>Mr. Dasharath Karabari</b>	<b>2HN19EE004</b>
<b>Mr. Yallappa Gawade</b>	<b>2HN20EE404</b>

a bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library.

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

  
26.5.23

Dr. B. V. Madiggond  
Prof. K. B. Negalur  
Guides



Dr. B. V. Madiggond  
HOD





Dr. S. C. Kamate  
Principal

Name of the Examiners

1.   
Dr. B. V. Madiggond
2.   
S. M. Bani

Signature with Date

  
27.5.23  
  
27.5.23



S.J.P.N. Trust's

**HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236**

Accredited at "A" Grade by NAAC



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## **CERTIFICATE**

Certified that the Project work entitled

**"SMART SELF- DRIVING ELECTRICAL  
VEHICLE USING AI"**

carried out by

**Mr. AKASH TUKARE**

**2HN20EE400**

**Ms. MUSKAN MOMIN**

**2HN19EE008**

**Ms. TEHAMIM REHAMANBHAI**

**2HN19EE013**

a bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library.

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

Prof. H.R. Zinage  
Guide

Dr. B.V. Madiggond  
HOD

Dr. S.C. Kamate  
Principal

Name of the Examiners

1. Dr. B.V. Madiggond
2. S.M. Bani

Signature with Date

27/5/23  
27/5/2023



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-  
590018**



S.J.P.N. Trust's

**HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**

**CERTIFICATE**

Certified that the Project work entitled

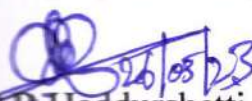
**"DESIGN OF ARDUINO BASED BATTERY OPERATED VEHICLE FOR  
AGRICULTURE APPLICATION"**

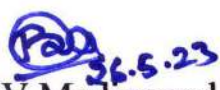
Carried out by


<b>Mr. Suraj Drakshe</b>	<b>2HN19EE012</b>
<b>Mr. Chirag Chougule</b>	<b>2HN20EE400</b>
<b>Mr. Vaibhav Mugale</b>	<b>2HN20EE403</b>

bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.

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

  
**Prof. O.B. Heddurshetti**  
Guide


  
**Dr. B.V. Madiggond**  
HOD

  
**Dr. S.C. Kamate**  
Principal

Name of the Examiners

Signature with Date

1 **B. V. Madiggond**

 27.5.23

2 **S. M. Bani**

 27/5/2023



S.J.P.N. Trust's

**HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236**

Accredited at "A" Grade by NAAC



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**CERTIFICATE**

Certified that the Project work entitled

**"AN INTELLIGENT LIGHTNING PREDICTION AND PROTECTION SYSTEM  
USING ANN"**

carried out by

**Ms. Amisha Akkole**

**2HN19EE001**

**Mr. Mahesh Hirekurabar**


**2HN19EE007**

**Mr. Nagadarshan Kopparad**

**2HN19EE009**

a bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library.

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


  
Shri. M.P. Yenagimath

Guide

Name of the Examiners

  
Dr. B.V. Madiggond

HOD

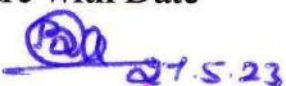
  
Dr. S.C. Kamate

Principal

Signature with Date

  
B.V. Madiggond

  
S.M. Bani

  
27.5.23  
27/5/2023



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI- 590018



S.J.P.N. Trust's

**HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236**

Accredited at "A" Grade by NAAC



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**

## **CERTIFICATE**

Certified that the Project work entitled

**"IOT BASED VEHICLE ACCIDENT PREVENTION AND DETECTION SYSTEM"**

carried out by

**Ms. Ashwini Baragi**

**2HN19EE002**

**Mr. Shivalingappa Teli**

**2HN19EE011**

**Mr. Vijaykumar Patil**

**2HN19EE014**

a bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library.

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

*Amit U Neshti*  
27/05/23

Prof. Amit U Neshti

Guide

Name of the Examiners

1. *Dr. B. V. Madiggond*

2. *S. M. Bant*

*Dr. B. V. Madiggond*  
27.5.23

Dr. B. V. Madiggond

HOD

Signature with Date

*Dr. S. C. Kamate*  
27/5/23

*Dr. S. C. Kamate*

Dr. S. C. Kamate

Principal

*Sugan*  
27/5/2023



S.J.P.N. Trust's

**HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236**

Accredited at "A" Grade by NAAC



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

## **CERTIFICATE**

Certified that the Project work entitled


**"Network Reconfiguration for Loss Reduction and Improvement of Voltage Profile in  
Electrical Distribution System"**


Carried out by


<b>Mr. Kunal Mane</b>	<b>2HN19EE006</b>
<b>Mr. Gopi Mane</b>	<b>2HN19EE005</b>
<b>Ms. Prerana Rajangane</b>	<b>2HN19EE010</b>

a bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library.

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

  
Prof. Shivanand Hirekodi  
Prof. S. G. Huddar  
Guide

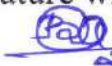
  
Dr. B.V. Madiggond  
HOD

  
Dr. S.C. Kamate  
Principal

Name of the Examiners

1.   
Dr. B.V. Madiggond
2.   
S.M. Beni

Signature with Date

  
27.5.23

  
27/5/2023