

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-590018



HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI-591236

Accredited at 'A' Grade by NAAC and Recognized under section 2(f) of UGC Act, 1956
Programmes Accredited by NBA: CSE & ECE



DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING

CERTIFICATE

Certified that the project work entitled "Crash Detection Using Sensor Data On VANETS" carried out by Mr. Rakesh Madabhavi (2HN19EC016), Mr. Hanamanta Soolibhavi (2HN20EC400), Mr. Vijayakumar Poilcepatil (2HN20EC401), bonafide students of HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library

Dr. R. R. Maggavi

GUIDE

Dr. R. R. Maggavi

HOD

Dr. S. C. Kamate.

PRINCIPAL

External Viva

Name of the Examiner

Signature with date

1.

S. S. Kamate

2.

Dr. M. C. Sansa

S. S. Kamate
27/05/23
M. C. Sansa
27/05/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-590018



HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI-591236

Approved by AICTE, Recognized by Govt of Karnataka and Permanently Affiliated to VTU, Belagavi
Accredited at 'A' Grade by NAAC and Recognized under section 2(f) of UGC Act, 1956
Programmes Accredited by NBA : CSE, ECE



DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING

CERTIFICATE

Certified that the project work entitled "SMART INTEGRATED WIRE/WIRELESS CHARGING SYSTEM FOR ELECTRIC VEHICLES WITH SOLAR AND GRID ENERGY USING IOT" carried out by Mr. Akshay Salagare (2HN19EC001), Mr. Kallappa Chikodi (2HN19EC009), Mr. Maruti Magadum (2HN19EC011), Mr. Siddarth Patil (2HN19EC022), bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University, Belgaum** during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.


Prof. D. M. Kumbhar.

GUIDE


Dr. R. R. Maggavi.

HOD

External Viva


Dr. S. C. Kamate.


PRINCIPAL

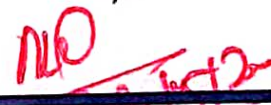
Name of the Examiner

1. S. S. Kamate

2. Dr. M. C. Saranika

Signature with date


27/05/23


27/05/23



HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI-591236

Accredited at 'A' Grade by NAAC and Recognized under section 2(f) of UGC Act, 1956
Programmes Accredited by NBA: CSE & ECE

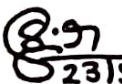



DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING

CERTIFICATE

Certified that the project work entitled "Intelligent All terrain IoT Robotic Vehicle for Disaster Management And Rescue" carried out by Mr. Anket Chougala (2IIN19EC002), Mr. Ganesh Managuli (2IIN19EC006), Mr. Ravi Marennavar (2IIN19EC017), Mr. Ronit Patil (2IIN19EC018) bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University, Belgaum** during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.


23/5/23
Dr. S. S. Itannavar
GUIDE




27/5/23
Dr. R. R. Maggavi
HOD


Dr. S. C. Kamate.
PRINCIPAL

External Viva

- Name of the Examiner
1. Dr. M. C. Sarsarkar
 2. S. S. Kamate

Signature with date


27/5/23

27/5/23



HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI-591236

Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to VTU, Belagavi
Accredited at 'A' Grade by NAAC and Recognized under section 2(f) of UGC Act, 1956
Programmes Accredited by NBA : CSE, ECE





DEPARTMENT OF ELECTRONICS & COMMUNICATION


ENGINEERING

CERTIFICATE

Certified that the project work entitled "An Artificial Intelligence Based User Friendly Two Way Sign Language Translator for Deaf and Dumb People of Rural India" carried out by Ms. Swati S Bhiste (2HN19EC030), Ms. Sneha S Patil (2HN19EC023), Ms. Priyanka S Dattawade (2HN19EC014), bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University, Belgaum** during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.


Prof. P. V. Patil.
GUIDE


Dr. R. R. Maggavi
HOD

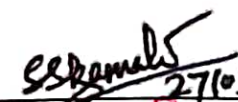


Dr. S. C. Kamate.
PRINCIPAL

External Viva

Name of the Examiner

Signature with date

1. S. S. Kamate
2. Dr. M. C. Sankar


27/05/23




HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI-591236

Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to VTU, Belagavi
Accredited at 'A' Grade by NAAC and Recognized under section 2(f) of UGC Act, 1956
Programmes Accredited by NBA : CSE, ECE



DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING

CERTIFICATE

Certified that the project work entitled "JALARAKSHAK- IOT BASED SOLAR POWERED, REMOTE CONTROLLED, AQUA WASTE COLLECTOR, MONITORING AND TREATMENT SYSTEM" carried out by Ms. Laxmi Raju Bedage (2HN19EC010), Ms. Shraddha Alagouda (2HN19EC021), Ms. Soujanya R Madabhavi (2HN19EC026), bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.

Prof.  S. Patil.

GUIDE


Dr. R. R. Maggavi

HOD


Dr. S. C. Kamme.

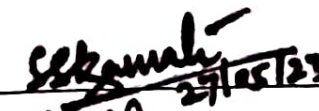
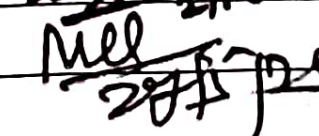
PRINCIPAL

External Viva

Name of the Examiner

Signature with date

1. S. S. Kamete
2. Dr. M. C. Saravada


27/05/23

27/05/23



HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI-591236

Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to VTU, Belagavi
Accredited at 'A' Grade by NAAC and Recognized under section 2(f) of UGC Act, 1956
Programmes Accredited by NBA : CSE, ECE

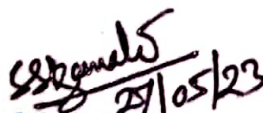


DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING

CERTIFICATE

Certified that the project work entitled "Innovative Approach to Prevent illegal Smuggling in Forest Areas Using Machine Learning" carried out by Ms. Surabhi S Maradi (2HN19EC027), bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University, Belgaum** during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.


Prof. S. S. Kamate

GUIDE


Dr. R. R. Maggavi

HOD


Dr. S. C. Kamate.


PRINCIPAL

External Viva

Name of the Examiner

Signature with date

1. S. S. Kamate
2. Dr. M. C. Ganaraj


27/05/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-590018



HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI-591236

Accredited at 'A' Grade by NAAC and Recognized under section 2(f) of UGC Act, 1956
Programmes Accredited by NBA: CSE & ECE





DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING

CERTIFICATE

Certified that the project work entitled “LORA based framework for smart cities” carried out by Ms. Apoorva Magadum (2HN19EC003), Ms. Divya Karigar (2HN19EC005), Ms. Nikita Hattarki (2HN19EC013) are bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University, Belgaum** during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.


Prof. D. B. Madihalli.
GUIDE


Dr. R. R. Maggavi.
HOD


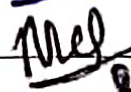

Dr. S. C. Kamate.
PRINCIPAL

External Viva

Name of the Examiner

Signature with date

1. S. S. Kamate
2. Dr. M. C. Sarsankar


27/05/23

28/05/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-590018



HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI-591236

Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to VTU, Belagavi.
Recognized under 2(f) & 12B of UGC Act, 1956
Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA:CSE & ECE

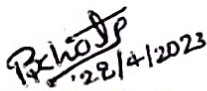


DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING

CERTIFICATE

Certified that the project work entitled "Advanced Military Warfield Robot with Night Vision and AI Based Automated Target Shooting" carried out by Ms. Rutuja Shetti (2HN19EC019), Ms. Sahana Mangaloorkar (2HN19EC020), Ms. Snehal Patil (2HN19EC024) bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University, Belgaum** during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.


Prof. B. P. Khot
GUIDE


Dr. R. R. Maggavi
HOD

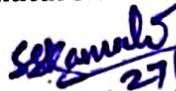


Dr. S. C. Kamate
PRINCIPAL

External Viva

Name of the Examiner

Signature with date

1. S. S. Kamate
2. Dr. M. C. Saraswartha


27/05/23

27/05/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-590018



HIRASUGAR INSTITUTE OF TECHNOLOGY NIDASOSHI-591236

Accredited at 'A' Grade by NAAC and Recognized under section 2(f) of UGC Act, 1956
Programmes Accredited by NBA : CSE, ECE




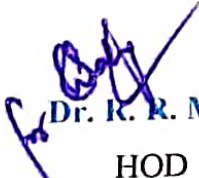
DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING

CERTIFICATE

Certified that the project work entitled "Robokisan – Autonomous Solar Powered Voice Controlled Multilingual Support Over IOT" carried out by Ms. Bhagyashree Madihalli (2HN19EC004), Ms. Harshita Goudadi (2HN19EC007), Ms. Swati Katageri (2HN19EC029), bonafide students of **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University, Belgaum** during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.


Prof. S. S. Mahaj
GUIDE


Dr. K. R. Maggavi
HOD

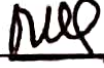
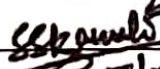

Dr. S. C. Kamate.
PRINCIPAL

External Viva

Name of the Examiner

1. Dr. M. C. Suresh
2. S. S. Kamate

Signature with date


 27/05/23