**Dr. Ambedkar Institute of Technology, Bangalore – 56**

**Department of Electronics & Instrumentation Engineering**

The attached documents are valid and approved.

Prof. & Head 5/11/22

Professor & Head
Department of Electronics & Instrumentation Engineering
Dr. Ambedkar Institute of Technology
Bangalore - 560 056.

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1.3.4a

# Dr.Ambedkar Institute of Technology

(An Autonomous Institution, Aided by Government of Karnataka
Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)
BDA Outer Ring Road, Near JnanaBharathi Campus, Mallathally, Bengaluru-560056, Karnataka

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

# Circular

Date: 18-06-2022

It is to inform that the Final Project Synopsis Presentation (offline) is scheduled on **24-6-2022**

At **9:30** am for final year students (8th Semester). All the students are informed to prepare for Presentation of the project with the module and draft copy of the report. It is mandatory for all the students to maintain the timings which is given in schedule. All the students should be present for all the sessions positively. The schedule for the presentation in enclosed.

1. Mode of presentation will be offline. PPT should be used for presentation.
2. 15 minutes for presentation
3. Students should come in formals. Dress code is mandatory.
4. Group A Coordinator- Sheetal N
5. Group B Coordinator- Sridevi N

## Project Mid-Evaluation

**Group A** **Room NO.: C-403**

| Sl. No. | Group No. | USN | Name | Guide & Examiner | Title of The Project | Place of conduction |
|---|---|---|---|---|---|---|
| 1 | 3 | 1DA18EI016 | Gagana Sindhu Bn | Guide: SBS Examiner: HRS | Smart Border Surveillance & Smart Wall System Using Wireless Sensor Network And Computer Vision | Dept. of EIE, Dr. AIT |
| | | 1DA17EI001 | Adarsh Suresh Hegde | | | |
| | | 1DA18EI401 | Aishwarya SP | | | |
| | | 1DA18EI403 | Sampathkumar | | | |
| 2 | 5 | 1DA18EI018 | Jangama Vandana | Guide: GVS Examiner: PS | Research On AES Encription Algorithm Based On Timestamp In Wireless Sensor Networks | Dept. of EIE, Dr. AIT |
| | | 1DA18EI021 | Mahipal Reddy | | | |
| | | 1DA18EI031 | Sahana S Patil | | | |
| | | 1DA18EI037 | Soundarya K | | | |

| Sl. No. | Group No. | USN | Name | Guide & Examiner | Title of The Project | Place of conduction |
|---|---|---|---|---|---|---|
| 3 | 10 | 1DA18EI026 | Raghu D | Guide: SHN | | Dept. of EIE, Dr. AIT |
| | | 1DA18EI042 | Vishwanath Nagu G | Examiner: HRS | "Intelligent Vehicle For Military Purpose Using Iot" | |
| | | 1DA18EI034 | Shivanand | | | |
| | | 1DA19EI417 | Shreenivasa G V | | | |
| 4 | 11 | 1DA18EI001 | A Deepika | Guide: GVS Examiner: SBS | "Securing Matrix Counting-Based Secret-Sharing Involving Crypto Steganography" | Dept. of EIE, Dr. AIT |
| | | 1DA18EI003 | Akhil Singh Bandari | | | |
| | | 1DA18EI013 | Drusti P Dev | | | |
| | | 1DA18EI027 | Rakesh R | | | |
| 5 | 12 | 1DA18EI014 | Gagan M R | Guide: PS Examiner: GVS | Personalized Health Monitoring System Using Iot With Cloud Computing | Dept. of EIE, Dr. AIT |
| | | 1DA18EI007 | Charan Kuamr P | | | |
| | | 1DA19EI416 | Shivu L | | | |
| 6 | 14 | 1DA18EI025 | Preethi Shekar | Guide: TSM Examiner: SHN | Smart Women Health And Security System | Dept. of EIE, Dr. AIT |
| | | 1DA19EI418 | Twinkle Tumavat C | | | |
| | | 1DA19EI401 | Archana N B | | | |
| | | 1DA19EI404 | Divya Shree | | | |
| 7 | 16 | 1DA18EI029 | Rohan H Jeeral | Guide: SBS Examiner: TSM | Redtacton Technology | Dept. of EIE, Dr. AIT |
| | | 1DA18EI009 | Darshan S | | | |
| | | 1DA14EI014 | Harish G | | | |
| 8 | 13 | 1DA18EI030 | Sagar S | Guide: HRS Examiner: SHN | Smart Water Meter To Control Water Wastage | Dept. of EIE, Dr. AIT |
| | | 1DA18EI039 | Ullas M S | | | |
| | | 1DA18EI002 | Akhil Kumar Gm | | | |
| | | 1DA18EI009 | Darshan S | | | |

**Group B**

**Room NO.: C-404**

| Sl. No. | Group No. | USN | Name | Guide & Examiner | Title of the Project | Place od Conduction |
|---|---|---|---|---|---|---|
| 1 | 1 | 1DA18EI004 | Arpitha G | Guide: HSD Examiner: SN | Smart System for Alzheimer Patients | Dept. of EIE, Dr. AIT |
| | | 1DA18EI017 | Halima Hafsa M | | | |
| | | 1DA18EI038 | Spurthi D H | | | |
| | | 1DA18EI043 | Yaseen A N | | | |
| 2 | 2 | 1DA18EI006 | Chandana R | Guide: NB Examiner: MP | Bone cancer detection at early stage using PET/CT imaging technique | Dept. of EIE, Dr. AIT |
| | | 1DA18EI020 | Maheshwari K | | | |
| | | 1DA18EI024 | Prakruthi R A | | | |
| | | 1DA18EI036 | Sinchana M C | | | |
| 3 | 4 | 1DA18EI010 | Deena Dechamma KJ | Guide: MP Examiner: KR | Automatic Blackboard Cleaner | Dept. of EIE, Dr. AIT |
| | | 1DA18EI011 | Dharani G | | | |
| | | 1DA18EI022 | Nidhi R | | | |
| | | 1DA18EI032 | Sanjitha HC | | | |
| 4 | 6 | 1DA19EI406 | Kiran Rathod | Guide: KR Examiner: NB | Smart Helmet | Dept. of EIE, Dr. AIT |
| | | 1DA19EI408 | Nagbharana PS | | | |
| | | 1DA19EI410 | Ningappa | | | |
| | | 1DA19EI415 | Sagar raj g | | | |
| 5 | 7 | 1DA19EI400 | A Bharath | Guide: SN Examiner: GD | "IOT Based Hydroponics And Leaf Disease Detection Using Deep Learning" | Dept. of EIE, Dr. AIT |
| | | 1DA19EI403 | Dhanush kumar s | | | |
| | | 1DA19EI407 | Lokesha | | | |
| | | 1DA19EI411 | Pallavi R | | | |
| 6 | 8 | 1DA19EI405 | Harish | Guide: KR Examiner: HSD | Area time power efficient FFT architectures based on binary signed digit CORDIC | Dept. of EIE, Dr. AIT |
| | | 1DA19EI413 | Rangaswamy BK | | | |
| | | 1DA19EI414 | Rashmi KS | | | |
| | | 1DA19EI419 | Vinutha MN | | | |
| 7 | 9 | 1DA17EI009 | Ashwin g parvath | Guide: MP Examiner: HSD | "Controlling of traffic using automatic movable road divider" | Dept. of EIE, Dr. AIT |
| | | 1DA17EI040 | Sanjay d r | | | |
| | | 1DA17EI048 | Swarnashree k r | | | |
| | | 1DA19EI412 | Rakshitha s | | | |
| 8 | 12 | 1DA18EI005 | Bhavana U | Guide: SN Examiner: GD | IoT based two way safety enabled intelligent stove with age verification using machine learning | Dept. of EIE, Dr. AIT |
| | | 1DA18EI012 | Divya D | | | |
| | | 1DA18EI015 | Gagana R | | | |
| | | 1DA18EI035 | Shwetha B | | | |

HOD

**Professor & Head**
**Department of Electronics & Instrumentation Engineering**
**Dr. Ambedkar Institute of Technology**
**Bangalore - 560 056**

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum – 590 014, Karnataka, India.

**MAIN PROJECT REPORT**
**ON**

## SMART SYSTEM FOR ALZHEIMER PATIENTS

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING IN

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**SUBMITTED BY**


| | |
|---|---|
| **Arpitha G** | **1DA18EI004** |
| **Halima Hafsa Makandar** | **1DA18EI017** |
| **Spurthi D H** | **1DA18EI038** |
| **Yaseen Abdulajeej Nadaf** | **1DA18EI043** |

**Under the guidance of**
**Mrs. HAMSA REKHA S D**
**Assistant professor Dept. of EIE Dr AIT, Bangalore**



**Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY**
(An Autonomous Institute affiliated to VTU, Belgaum)
DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING BANGALORE - 560056


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# Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute affiliated to VTU, Belgaum)
Mallathahalli, Near Jnana Bharthi Campus, Bangalore – 560056

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main-Project work entitled "SMART SYSTEM FOR ALZHEIMER PATIENTS" is a Project work carried out by **Arpitha G, Halima Hafsa Makandar, Spurthi D H, Yaseen Abdulajeej Nadaf** in the partial fulfilment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year 2021-2022. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
|---|---|---|
| **Mrs. HAMSA REKHA S D**<br>Assistant Professor<br>Dept. of EIE, Dr. AIT | **Dr GANAPATHI V SAGAR**<br>HOD<br>Dept. of EIE, Dr. AIT | **Dr M Meenakshi**<br>Principal<br>Dr AIT |

Professor & Head
Department of Electronics & Instrumentation Engineering
Dr. Ambedkar Institute of Technology
Bangalore-560 056.

**External viva**

| Name of the Examiners | Signature with Date |
|---|---|
| 1. Dr. Ganapathi V. Sagar | |
| 2. Dr. Anand Jatti, RVCE, Bangalore | 20/7/22 |

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belgaum – 590 014, Karnataka, India.

MAIN PROJECT REPORT
ON

# "Smart ATM Machine Using RedTacton Technology"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELORE OF ENGINEERING IN

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**SUBMITTED BY**


**DARSHAN S** **1DA18EI009**
**HARISH G** **1DA14EI014**

**Under the Guidance of**
**Soumya B S**
**Assistant Professor**
**Dept.EIE, Dr. AIT,**
**Bangalore**


**Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY**
(An Autonomous Institute affiliated to VTU, Belgaum)
DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING BANGALORE – 560 056
(2021-2022)

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(An Autonomous Institute affiliated to VTU, Belgaum) Mallathahalli,
Near Jnana Bharthi Campus, Bangalore – 56

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
BACHELORE OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"Smart ATM Machine Using RedTacton Technology"** is a Project work carried out by **DARSHAN S (1DA18EI009), HARISH G (1DA14EI014),** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022.** It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of the Principal |
|---|---|---|
| **Soumya B S**<br>Assistant Professor<br>Dept.EIE, Dr. AIT | **Ganapathi V Sagar**<br>Professor & HOD<br>Dept.EIE, Dr. AIT | **Dr. Meenakshi M**<br>Principal<br>Dr. AIT |

Professor & Head
Department of Electronics & Instrumentation Engineering
Dr. Ambedkar Institute of Technology
Bangalore - 560 056.

**External Viva**

| Name of the Examiners | Signature with Date |
|---|---|
| 1. Dr. Ganapathi V. Sagar | |
| 2. Dr. Anand Sathi, RVCE, Blore | 20/7/22 |

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belgaum – 590 014, Karnataka, India.

# MAIN PROJECT REPORT
# ON
# "AES ENCRYPTION USING FPGA BOARD"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING

IN

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**SUBMITTED BY**


| | |
|---|---|
| **JANGAMA VANDANA** | **1DA18EI018** |
| **MAHIPAL REDDY** | **1DA18EI021** |
| **SAHANA S PATIL** | **1DA18EI031** |
| **SOUNDARYA K** | **1DA18EI037** |

**Under the guidance of**
**DR GANAPATHI V SAGAR**
**Associate professor,HOD**
**Dept.of EIE Dr.AIT,**
**Bangalore**

**Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY**
(An Autonomous Institute affiliated to VTU, Belgaum)
DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
ENGINEERING BANGALORE – 560 056

(2021-2022)

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Near Jnana Bharthi Campus, Bangalore – 56

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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled "**AES ENCRYPTION USING FPGA BOARD**" is a Project work carried out by **Jangama Vandana(1DA18EI018), Mahipal Reddy(1DA18EI021), Sahana S Patil(1DA18EI031), Soundarya K(1DA18EI037)** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
|---|---|---|
| **Dr. Ganapathi V Sagar**<br>Associate Professor,HOD<br>Dept. of EIE, Dr,AIT | Professor & Head<br>Department of Electronics & Instrumentation Engineering<br>Dr. Ambedkar Institute of Technology<br>Bangalore-560 056. | **Dr. Meenakshi M**<br>Principal<br>Dr.AIT |

**External viva**

| Name of the Examiners | Signature with Date |
|---|---|
| 1. Dr. Ganapathi V. Sagar | 19/7/22 |
| 2. Dr. Anand Jatti, RVCE, Bangalore | |

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belgaum – 590 014, Karnataka, India.

# MAIN PROJECT REPORT
# ON
# "Smart Border Surveillance & Smart Wall System using Wireless Sensor Network and Computer Vision"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING

IN

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**


**SUBMITTED BY**

| | |
|---|---|
| **Gagana Sindhu BN** | **1DA18EI016** |
| **Adarsh Suresh Hegde** | **1DA17EI001** |
| **Aishwarya SP** | **1DA18EI401** |
| **Sampathkumar** | **1DA18EI403** |

**Under the guidance of**
**Mrs. Soumya BS**
**Assistant professor**
**Dept. of EIE Dr.AIT,**
**Bangalore**



**Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY**
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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING BANGALORE – 560 056

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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"Smart Border Surveillance & Smart Wall System using Wireless Sensor Network and Computer Vision"** is a Project work carried out by **Gagana Sindhu BN [1DA18EI016], Adarsh Suresh Hegde [1DA17EI001], Aishwarya SP [1DA18EI401], Sampathkumar [1DA18EI403]** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
|---|---|---|
| **Mrs. Soumya BS** | **Dr. Ganapathi V Sagar** | **Dr. Meenakshi M** |
| Assistant Professor | Associate Professor & HOD | Principal |
| Dept. of EIE, Dr,AIT | Dept. of EIE, Dr.AIT | Dr.AIT |

**External viva**

| **Name of the Examiners** | **Signature with Date** |
|---|---|
| 1. Dr. Ganapathi V. Sagar | |
| 2. Dr. Anand Jatti, RVCE, Bangalore | 20/7/22 |

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# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

## Jnana Sangama, Belgaum – 590 014, Karnataka, India.

## MAIN PROJECT REPORT

## ON

## "Securing Matrix Counting-Based SecretSharing Involving Crypto Steganography"

Submitted in partial fulfillment of the requirements for the award of degree in

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**


**SUBMITTED BY**

| | |
|---|---|
| **A DEEPIKA** | **1DA18EI001** |
| **AKHIL SINGH BHANDARI** | **1DA18EI003** |
| **DRUSTI P DEV** | **1DA18EI013** |
| **RAKESH R** | **1DA18EI027** |

**UNDER THE GUIDANCE OF**

**Dr. Ganapathi V Sagar**

Associate professor & HOD

Dept. of EIE Dr.AIT

Bangalore

## Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute affiliated to VTU, Belgaum)

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

BANGALORE – 560 056


(2021-2022)

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## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
## BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"Securing Matrix Counting-Based SecretSharing Involving Crypto Steganography"** is a Project work carried out by **A Deepika (1DA18EI001), Akhil Singh Bhandari (1DA18EI003), Drusti P Dev (1DA18EI013), Rakesh R (1DA18EI027)** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
|---|---|---|
| **Dr. Ganapathi V Sagar**<br>Associate Professor & HOD<br>Dept. of EIE , Dr.AIT | **Dr. Ganapathi V Sagar**<br>Associate Professor & HOD<br>Dept. of EIE, Dr.AIT | **Dr. M. Meenakshi**<br>Professor & Principal<br>Dr.AIT |

Professor & Head
Department of Electronics & Instrumentation Engineering
Dr. Ambedkar Institute of Technology
Bangalore - 560 056.

**External viva**

| Name of the Examiners | Signature with Date |
|---|---|
| 1. Dr. Ganapathi V. Sagar | 19/7/22 |
| 2. Dr. Anand Jatti, RVCE, B'lore | |

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belgaum – 590 014, Karnataka, India.

# MAIN PROJECT REPORT
# ON
# "SMART WATER MANAGEMENT IN AGRICULTURE USING IOT"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING

IN

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**SUBMITTED BY**


| | |
|---|---|
| **AKHIL KUMAR G M** | **1DA18EI002** |
| **SAGAR S** | **1DA18EI030** |
| **ULLAS M S** | **1DA18EI039** |

**Under the guidance of**
**SRIDHAR KUMAR H R**
**Assistant professor**
**Dept. of EIE Dr.AIT,**
**Bangalore**



**Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY**
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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING BANGALORE – 560 056

(2021-2022)

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## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
## BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled "SMART WATER MANAGEMENT IN AGRICULTURE USING IOT" is a Project work carried out by **AKHIL KUMAR G M, SAGAR S and ULLAS M S** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
|---|---|---|
| **Shridhar Kumar H R**<br>Assistant Professor<br>Dept. of EIE, Dr,AIT | **Dr. Ganapathi V Sagar**<br>HOD<br>Dept. of EIE, Dr.AIT | **Dr. Meenakshi M**<br>Principal<br>Dr.AIT |

Professor & Head
Department of Electronics & Instrumentation Engineering
Dr. Ambedkar Institute of Technology
Bangalore - 560 056.

**External viva**

| Name of the Examiners | Signature with Date |
|---|---|
| 1. Dr. Ganapathi V. Sagar | |
| 2. Dr. Anand Jatti, RVCE, Bangalore | 19/7/22 |

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# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum – 590 014, Karnataka, India.

## PROJECT REPORT

ON

"Controlling OF Traffic Using Automatic Movable Road Divider"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND INSTRUMENTATION ENGINEERING


SUBMITTED BY

| | |
|---|---|
| ASHWIN G PARVATH | 1DA17EI009 |
| SANJAY D R | 1DA17EI040 |
| SWARANASHREE K R | 1DA17EI048 |
| RAKSHITHA S | 1DA19EI412 |

UNDER THE GUIDANCE OF

**Mr. M . Prasanna Kumar**

Assistant professor

Dept. of EIE Dr.AIT

Bangalore

**Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY**

(An Autonomous Institute affiliated to VTU, Belgaum)

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

BANGALORE – 560 056


(2021-2022)

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(An Autonomous Institute affiliated to VTU, Belgaum) Mallathahalli, Near Jnana Bharathi Campus, Bangalore – 56

Aided By Govt. of Karnataka

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING
## BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"Controlling of Traffic Using Automatic Movable Road Divider"** is a Project work carried out by **Ashwin G Parvath (1DA17EI009),Sanjay D R (1DA17EI040), Swarnashree K R (1DA17EI048), Rakshitha S (1DA19EI412)** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
|---|---|---|
| **Mr. M Prasanna Kumar M**<br>Assitant Professor<br>Dept. of EIE , Dr.AIT | **Dr. Ganapathi V Sagar**<br>Associate Professor & HOD<br>Dept. of EIE , Dr.AIT | **Dr. M. Meenakshi**<br>Professor & Principal<br>Dr.AIT |

**External viva**

| Name of the Examiners | Signature with Date |
|---|---|
| 1. Dr. Ganapathi V. Sagar | |
| 2 Dr. Anand Jatti, RVCE, B'lore | 20/7/22 |

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belgaum – 590 014, Karnataka, India.

# MAIN PROJECT REPORT
# ON
# "Vehicle Theft Tracking, Detection and Locking System Using OpenCV"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING

IN

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**SUBMITTED BY**


| | |
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| **GAGAN M R** | **1DA18EI014** |
| **SHIVU L** | **1DA19EI416** |

**Under the guidance of**
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**Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY**
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(2021-2022)

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(An Autonomous Institute affiliated to VTU, Belgaum) Mallathahalli,
Near Jnana Bharthi Campus, Bangalore – 56

Aided By Govt. of Karnataka

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
## BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"Vehicle Theft Tracking, Detection and Locking System Using OpenCV"** is a Project work carried out by **CHARANKUMAR P, GAGAN M R, SHIVU L** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022.** It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
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| **Dr. Shubha P** | **Dr. Ganapathi V Sagar** | **Dr. Meenakshi M** |
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| **Name of the Examiners** | **Signature with Date** |
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| 1. Dr. Ganapathi V. Sagar | |
| 2. Dr-Aravind Jatti, RVCE | 19/7/22 |

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# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum – 590 018, Karnataka, India.

## MAIN PROJECT REPORT

**on**

## "SMART HELMET"

Submitted in partial fulfilment of the requirements for the award of degree in

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND INSTRUMENTATION ENGINEERING

**SUBMITTED BY**


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## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
## BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"SMART HELMET"** is a Project work carried out by **NAGABHARANA P S, KIRAN RATHOD, SAGAR RAJ G, NINGAPPA HUGGI** in the partial fulfilment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide 20/7/22 | Signature of the HOD | Signature of Principal |
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| **Dr. K. Ramesha** | **Dr. Ganapathi V Sagar** | **Dr. Meenakshi M** |
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| 1. Dr. Ganapathi V. Sagar | |
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=VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belgaum – 590 014, Karnataka, India.

# MAIN PROJECT REPORT
# ON
# "Automatic Board Cleaner"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING

IN

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**SUBMITTED BY**


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Aided By Govt. of Karnataka

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"Automatic Board Cleaner"** is a Project work carried out by **Deena Dechamma K J, Dharani G, Nidhi R, Sanjitha H C** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
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| 1. Dr. Ganapathi V. Sagar | |
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# VISVESVARAYA TECHNOLOGICAL UNIVERSITY
## Jnana Sangama, Belgaum – 590 014, Karnataka, India.

# PROJECT REPORT

## ON

# "Smart Device for Health and Security"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING

IN

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**


**SUBMITTED BY**

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| **PREETHI SHEKHAR** | **1DA18EI025** |
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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING
BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"Smart Device for Health and Security"** is a Project work carried out by **Preethi Shekhar (1DA18EI025), Archana N B (1DA19EI401), Divyashree (1DA19EI404), Twinkle Kumavath C (1DA19EI418)** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
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| Name of the Examiners | Signature with Date |
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| 1. Dr. Ganapathi V. Sagar | |
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# VISVESVARAYA TECHNOLOGICAL UNIVERSITY
## Jnana Sangama, Belgaum – 590 014, Karnataka, India.

**PROJECT REPORT**

**ON**

# "IOT Based Hydroponics and Leaf Disease Detection Using Deep Learning"

Submitted in partial fulfillment of the requirements for the award of degree in

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**SUBMITTED BY**


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**UNDER THE GUIDANCE OF**


**Mrs. Sridevi N**

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BANGALORE – 560 056


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## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING
## BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"IOT Based Hydroponics And Leaf Disease Detection Using Deep Learning"** is a Project work carried out by **A Barath (1DA19EI400),Dhanush Kumar S (1DA19EI403), Lokesha (1DA19EI407), Pallavi R (1DA19EI411)** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
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| Name of the Examiners | Signature with Date |
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| 1. Dr. Ganapathi V. Sagar | 19/7/22 |
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belgaum – 590 014, Karnataka, India.

# MAIN PROJECT REPORT
# ON
# "BONE CANCER DETECTION AT EARLY STAGE USING PET/CT IMAGING TECHNIQUE"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING (2018-2022)

IN

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**SUBMITTED BY**


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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
BACHELOR OF ENGINEERING

## CERTIFICATE

This is to certify that the Main Project work entitled **"BONE CANCER DETECTION AT EARLY STAGE USING PET/CT IMAGING TECHNIQUE"** is a Project work carried out by Chandana R, Maheshwari k, Prakruthi R Aand Sinchana M Cin the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICSAND INSTRUMENTATION ENGINEERING**of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

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| Name of theExaminers | Signature withDate |
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| 1. Dr. Ganapathi V. Sagar | |
| 2. Dr. Anand Jatti, RVCE, B'lore | 20/7/22 |

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belgaum – 590 014, Karnataka, India.

# MAIN PROJECT REPORT
# ON
# "INTELLIGENT VEHICLE FOR MILITARY PURPOSE USING IOT"

Submitted in partial fulfillment of the requirements for the award of degree in

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND INSTRUMENTATION ENGINEERING


**SUBMITTED BY**

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(2021-2022)

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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
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## CERTIFICATE

This is to certify that the Main Project work entitled "**INTELLIGENT VEHICLE FOR MILITARY PURPOSE USING IOT**" is a Project work carried out by **Raghu D, Shivanand, Vishwanath Nagu G, Shreenivasa G V** in the partial fulfillment of the award of degree of **BACHELOR OF ENGINEERING in ELECTRONICS AND INSTRUMENTATION ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year **2021-2022**. It is certified that all corrections/suggestions indicated during the internal assessment have been incorporated in the report. This Major Project report has been approved as it satisfies the academic requirements with the respect of project prescribed for the award Bachelor of Engineering degree.

| Signature of the Guide | Signature of the HOD | Signature of Principal |
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| **Sheetal N**<br>Assistant Professor<br>Dept. of EIE, Dr.AIT | Professor & Head<br>Department of Electronics & Instrumentation Engineering<br>Dr. Ambedkar Institute of Technology<br>Bangalore - 560 056. | **Dr. Meenakshi M**<br>Principal<br>Dr.AIT |

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| Name of the Examiners | Signature with Date |
|---|---|
| 1. Dr. Ganapathi V. Logan | 19/7/22 |
| 2. Dr. Anand Jatti, RVCE, B'lore | |