



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, approved by AICTE, accredited by NAAC & NBA)
Ibrahimpatnam – 501510, Hyderabad, Telangana.
[2017-2022]

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled “**WATER CONSERVATION FOR WATER SECURITY**” that being submitted by P.JEEVAN(17E11A0168), L.LAKPATHI(18EA15A0116), L.UMARANI(18E15A0120), M.LASHWINI(18E15A0122) in partial fulfillment for the award of degree of Bachelor Of Technology in civil engineering of Jawaharlal Nehru Technology University is a record of bonafide work carried out by them under my guidance and supervision.

Signature of guide
Dr.Venugopal

EXTERNAL EXAMINER

for Vaishnavi
7/7/21
HEAD OF THE DEPARTMENT



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

MANGALPALLY(V), IBRAHIMPATNAM(M), R. R. DISTRICT-501510

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled “IMPACT OF MUNICIPAL SOLID WASTE DISPOSAL ON GEOTECHNICAL PROPERTIES OF SOIL.” that being submitted by B. MAHESH (17E11A0145), Y. SRIKANTH (17E11A0152), P. PRASHANTH (17E11A0171), M. SRAVAN KUMAR (17E1A0165) in partial fulfilment for the award of degree of Bachelor Of Technology in civil engineering of Jawaharlal Nehru Technology University is a record of bonafide work carried out by them under my guidance and super vison.

Signature of guide

P. Nagaraju

EXTERNAL EXAMINER

HEAD OF THE DEPARTMENT



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

MANGALPALLY (V) ,IBRAHIMPATNAM (M) ,R.R.DISTRICT-501510

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled 'STUDY ON SELF HEALING CONCRETE ' that being submitted by P.Shivaji(18E15A0117) , N.Narendhar (18E15A0113) , K.Kumar (17E11A0158) , P.Anil goud (17E11A0156) in partial fulfilment for the award of degree of bachelor of technology in civil engineering of Jawaharlal Nehru Technological University is a record of bonafidework carried outby them under my guidance and super vision

Signature of guides


Mr. Abhish MS 7/7/21

EXTERNAL EXAMINER

for Vaichanavi
7/7/21
HEAD OF THE DEPARTMENT



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTU Hyderabad, Approved by AICTE)

Mangalpally (V), Ibrahimpatnam (M), Ranga Reddy (Dist), Telangana (State) - 501510.

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the major project report entitled “**ELECTRONIC WASTE (E-WASTE) DISPOSAL**” that being submitted by KOTHA KARTHIK GOUD (18E15A0115), TILEKAR GANESH (18E15A0118), MUDUSU GRACE MARY (18E15A0121), KARNATHI JYOTHI (17E11A0143), in partial fulfillment for the award of the degree of Bachelor Technology In Civil Engineering of Jawaharlal Nehru Technology University is a record of bonafide work carried out by them under my guidance and supervision.

Signature Of Guide :

Ms.Maboobi Shabashkhan

EXTERNAL EXAMINER :

for Vaishnavi
10/7/21

HOD/IN-CHARGE :



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
MANGALPALLY(V), IBRAHIMPATNAM(M), R. R. DISTRICT-501510

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled "STUDY ON STRENGTH BEHAVIOUR OF M30 GRADE CONCRETE WITH PARTIAL REPLACEMENT OF SAND WITH CERAMIC TILES WASTE " that being submitted by M.SINDHULATHA (17E11A0144), G.PRAVEEN SAGAR (17E11A0153), D.VAMSHI KRISHNA (17E11A0164), D.SANDEEP (18E15A0114) in partial fulfilment for the award of degree of Bachelor Of Technology in civil engineering of Jawaharlal Nehru Technology University is a record of bonafide work carried out by them under my guidance and super vison.

Vaishnavi
7/7/21

Signature of guides
MS A.VAISHNAVI

EXTERNAL EXAMINER

for Vaishnavi
7/7/21

HEAD OF THE DEPARTMENT



CERTIFICATE

This is to certify that them in project report entitled
“EFFECT OF STRENGTH CHARACTERISTICS OF
CONCRETE BY PARTIAL REPLACEMENT OF
FINE AGGREGATE WITH CRUSHED GLASS
POWDER”

Is being submitted by

**A.Lavanya(17E11A0139),G.Saikumar(17E11A0149),
R.MohanNaik(17E11A0155),P.mahesh(17E11A0173)**

respectively in partial fulfillment for the award of Degree of Bachelor of technology in Mechanical Engineering from Bharat Institute of Engineering and Technology, Affiliated to Jawaharlal Institute of Engineering and Technological University,Hyderabad and is a bonafide work carried out by them under the guidance of **MR ABHISH,M.S,Asst.Professor, Department of CIVIL Engineering, BIET Hyderabad.**The result embodied in this report has not been submitted to any other institute of university for the award of any other Degree.


Internal guide 7/7/21

MR. ABHISH ,M.S

Asst, Proffesor,BIET



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

MANGALPALLY (V) ,IBRAHIMPATNAM (M) ,R.R.DISTRICT-501510

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled '**IMPACT OF FLYASH AND SILICA FUMES ON COMPRESSIVE STRENGTH OF CONCRETE**' that being submitted by Sailaja (17E11A0138) , Anil (17E11A0167) , Hanmanthu (17E11A0162) , Sai Pranay (17E11A0157) in partial fulfilment for the award of degree of bachelor of technology in civil engineering of Jawaharlal Nehru Technological University is a record of bonafidework carried out by them under my guidance and supervision.

Signature of guides

Manish
07/07/2021
Mr.Manish kumar

EXTERNAL EXAMINER

for Vaishnavi
7/7/21
HEAD OF THE DEPARTMENT



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
MANGALPALLY(V), IBRAHIMPATNAM(M), R. R. DISTRICT-501510

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled “**PLANNING AND DESIGNING OF LOW - COST SCHOOL BUILDING**” that being submitted by A.RITESH RAJ (17E11A0146), M.SRIRAMULU (17E11A0147), P.PAVAN KUMAR (17E11A0154), D.SAIRAM (17E11A0159), B.AJAY(17E11A0166) in partial fulfilment for the award of degree of Bachelor Of Technology in civil engineering of Jawaharlal Nehru Technology University is a record of bonafide work carried out by them under my guidance and supervision.

Signature of guides Adithya
S

EXTERNAL EXAMINER

for Vaishnavi
7/7/21
HEAD OF THE DEPARTMENT



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

MANGALPALLY(V), IBRAHIMPATNAM(M), R. R. DISTRICT-501510

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled “EFFECT OF CURING ON CEMENT STABILIZED BLACK COTTON SOIL” that being submitted by R.DIVYA (17E11A0142), K.B.NARESH KUMAR (17E11A0161), B. PAVAN (17E11A0151), M. BHARGAV SAI (17E11A0169) in partial fulfilment for the award of degree of Bachelor Of Technology in civil engineering of Jawaharlal Nehru Technology University is a record of bonafide work carried out by them under my guidance and supervision.

Vaishnavi
7/7/21
Signature of guide
A. Vaishnavi:

for Vaishnavi
7/7/21
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

MANGALPALLY(V), IBRAHIMPATNAM(M), R. R. DISTRICT-501510

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled "**DUMPING YARD CONTAMINATED SOIL STABILIZATION BY USING BIO-ENZYMES**" that being submitted by B. NANDINI (17E11A0141), CH. RAVI KUMAR (17E11A0150), E. RAGHAVENDAR (17E11A0160), A.MADHU(17E11A0163) in partial fulfilment for the award of degree of Bachelor OF Technology in civil engineering of Jawaharlal Nehru Technology University is a record of bonafide work carried out by them under my guidance and super vison.

Signature of guides
P. NAGARAJU

EXTERNAL EXAMINER

HEAD OF THE DEPARTMENT



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
MANGALPALLY(V), IBRAHIMPATNAM(M), R. R. DISTRICT-501510

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled "**ML BASED PREDICTION MODEL FOR BEARING CAPACITY OF SHALLOW FOUNDATION**" that being submitted by G. MANEESHA (17E11A0140), G. SAI KUMAR REDDY (17E11A0148), A. SAI BABA (17E11A0172), M. MAHESH (1711A0175) in partial fulfilment for the award of degree of Bachelor Of Technology in civil engineering of Jawaharlal Nehru Technology University is a record of bonafide work carried out by them under my guidance and super vison.

Manish Kumar
03/07/2021
Signature of guides

Mr. Manish kumar:

EXTERNAL EXAMINER

HEAD OF THE DPARTMENT



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, approved by AICTE, accredited by NAAC & NBA)
Ibrahimpatnam – 501510, Hyderabad, Telangana.
[2017-2022]

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled "**BIO-BRICKS BY USING AGRICULTURAL WASTE**" that being submitted by **CH.VINAY(17E11A0170), D.SAIKRISHNA(18EA15A0123), D.HAMIKA(18E15A0119), G.VENU(18E15A0124)** in partial fulfilment for the award of degree of Bachelor Of Technology incivil engineering of Jawaharlal Nehru Technology University is a record of bonafide work carried out by them under my guidance and supervison.

Signature of guide
SHWETHA KODIHAL

EXTERNAL EXAMINER

HEAD OF THE DEPARTMENT

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTU(H) Hyderabad, Approved by AICTE, accredited by NAAC & NBA Accredited
UG Programs: EEE, ECE, ME & CSE)
Ibrahimpattanam-501510, Hyderabad, Telangana.



CERTIFICATE

This to certify that the Major Project work entitled "**NEW MAXIMUM POWER POINT TRACKING (MPPT) ALGORITHM FOR SOLAR PV SYSTEM UNDER RAPIDLY CHANGING ATMOSPHERIC CONDITIONS**" is a benefited project work carried out.

By

| | |
|------------------------|-------------------|
| G. SUSHMA REDDY | 17E11A0258 |
| B. SANJAY KUMAR | 17E11A0283 |
| K. BHARATH | 17E11A0269 |
| G. SHIVA | 17E15A0225 |

In the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattanam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of B. Tech degree in **Electrical and Electronics Engineering** during **2017-2021**.

Guide: *B. Praveen Kumar*
Dr. B. Praveen Kumar

Assistant Professor

Dept. of EEE

**Bharat institute of Engineering and Technology,
Ibrahimpattanam-501510, Hyderabad.**

Head of the Department:

Dr. J. Bhagwan Reddy

Professor

Dept. of EEE

**Bharat institute of Engineering and Technology,
Ibrahimpattanam-501510, Hyderabad.**

Viva-Voce held on.....

Internal Examiner

External Examiner

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC, Accredited by NBA (UG Programmes: EEE, CSE, ECE & Mechanical)

Approved by AICTE & Affiliated to JNTUH Hyderabad

Ibrahimpattam - 501 510, Hyderabad



CERTIFICATE

This to certify that major project work entitled **"DESIGN AND DEVELOPMENTS OF A COMPLETE SMART HOME BY USING INTERNET OF THINGS (IOT)"** is a benefited project work carried out by

| | |
|------------------------------|-------------------|
| S. NAVYA REDDY | 17E11A0207 |
| G. SAI SITHARAM REDDY | 17E11A0216 |
| B. NAGA BABU | 17E11A0232 |
| K. AKSHAY KUMAR | 18E15A0217 |

in the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfilment of the requirements for the award of **B. Tech degree in Electrical and Electronics Engineering** during 2017-2021.

Guide: 
Dr. K. MURUGA PERUMAL

Assistant Professor

Dept of EEE,

Bharat Institute of Engineering and Technology
Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:
Dr. J. BHAGWAN REDDY,

Professor ,

Dept of EEE,

Bharat Institute of Engineering and technology
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, Approved by AICTE, Accredited by NAAC&NBA
Accredited

UG Programs: (EEE, ECE, ME&CSE)
Ibrahimpattanam-501510, Hyderabad, Telangana.
2020-2021



CERTIFICATE

This to certify that mini project work entitled **"SMART IRRIGATION MONITORING SYSTEM"** is a benefited project work carried out

By

| | |
|-----------------|--------------|
| NAMPALLI RAHUL | (17E11A0270) |
| SARA RAMESH | (17E11A0265) |
| SRIRAM LAVANYA | (17E11A0264) |
| BARPATI KEERTHI | (18E15A0233) |

In the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattanam is submitted to **Jawaharlal Nehru Technological University**, Hyderabad in partial fulfilment of the requirements for the award of **B. Tech degree in Electrical and Electronics Engineering** during **2017-2021**.

Guide: *N. Sampath Kumar*
Mr. V. Sampath Kumar
Assistant Professor
Dept of EEE,
Bharat Institute of Engineering and Technology,
Ibrahimpattanam – 501 510, Hyderabad.

Head of the Department:

Dept of EEE,
Bharat Institute of Engineering and Technology
Ibrahimpattanam – 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, Approved by AICTE, Accredited by NAAC & NBA Accredited
UG Programs: EEE, ECE, ME& CSE)

Ibrahimpattam - 501510, Hyderabad, Telangana.



CERTIFICATE

This to certify that major project work entitled "AUTOMATIC SUBMERSIBLE PUMP CONTROL FOR IRRIGATION" is a benefited project work carried out by

B. ASHOK REDDY
J. MADHURI
R. RAMESH
S. KARTHIK
G. NAVEEN KUMAR

17E11A0299
18E15A0229
18E15A0223
17E11A0293
17E11A0274

in the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B.Tech** degree in **Electrical and Electronics Engineering** during 2017-2021.

Guide: 
Dr. T. Sukanth

Assistant Professor

Dept of EEE

Bharat institute of Engineering and Technology,
Ibrahimpattam-501510, Hyderabad.

Head of the Department:

Dept of EEE

Bharat institute of Engineering and Technology,
Ibrahimpattam-501510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC, accredited by NBA; UG Programmes: EEE, CSE, ECE & Mech)

Approved by AICTE & Affiliated to JNTUH Hyderabad Ibrahimpatnam -
501 510, Hyderabad



BHARAT
INSTITUTIONS

CERTIFICATE

This to certify that major project work “**STUDY OF INTEGRATION OF RENEWABLE ENRGY IN THE SMART GRID**” is a benefited project work carried out by

17E11A0253

KASHIREDDY MANASA

18E15A0218

K PRAVEEN KUMAR REDDY

18E15A0226

M SRIKANTH

16E11A0202

A SAI THARUN

in the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpatnam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B. Tech degree in Electrical and Electronics Engineering** during **2017-2021**.

Guide:

Mr. G. KAMALAKER REDDY

Assistant Professor

Dept of EEE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Head of the Department:

Dr. PRASAD RAO (Late)

Dept of EEE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Exam

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, Approved by AICTE, Accredited by NAAC&NBA
Accredited
UG Programs: EEE, ECE, ME&CSE)
Ibrahimpatnam-501510, Hyderabad, Telangana.
2020-2021



CERTIFICATE

This to certify that mini project work entitled **"SMART IRRIGATION MONITORING SYSTEM"** is a benefited project work carried out

By

| | |
|-----------------|--------------|
| NAMPALLI RAHUL | (17E11A0270) |
| SARA RAMESH | (17E11A0265) |
| SRIRAM LAVANYA | (17E11A0264) |
| BARPATI KEERTHI | (18E15A0233) |

In the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpatnam is submitted to **Jawaharlal Nehru Technological University**, Hyderabad in partial fulfilment of the requirements for the award of **B. Tech degree in Electrical and Electronics Engineering** during **2017-2021**.

Guide: *N. Sampath Kumar*
Mr. V. Sampath Kumar
Assistant Professor
Dept of EEE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Head of the Department:

Dept of EEE,
Bharat Institute of Engineering and Technology
Ibrahimpatnam – 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC, Accredited by NBA (UG Programmes: EEE, CSE, ECE & Mechanical) Approved by AICTE &

Affiliated to JNTUH Hyderabad

Ibrahimpatnam - 501 510, Hyderabad

CERTIFICATE

This to certify that major project work entitled "MINIMIZING THE PENALTY OF POWER FACTOR USING APFC UNIT" is a benefited project work carried out by

| | |
|----------------------------|---------------------|
| CH.ARAVIND | (17E11A0219) |
| Y.BHARGAVI | (17E11A0209) |
| K.VENU MADHAV REDDY | (18E15A0201) |
| N.CHAITANYA | (18E15A0204) |

in the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpatnam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfilment of the requirements for the award of **B. Tech** degree in **Electrical and Electronics Engineering** during 2017-2021.

Guide:


Mr. G.KAMALAKER REDDY

Assistant Professor

Dept of EEE,

Bharat Institute of Engineering and Technology,
Ibrahimpatnam - 501510, Hyderabad.

Head of the Department:

Dr.J.BHAGWAN REDDY

Professor

Dept of EEE,

Bharat Institute of Engineering and Technology
Ibrahimpatnam - 501510, Hyderabad

Viva-Voce held on.....

Internal Examiner

External Examiner

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC, Accredited by NBA, UO Programmes: EEE, CSE, ECE & Mechanical)

Approved by AICTE & Affiliated to JNTU Hyderabad (Registration No: 55) UO, Hyderabad



CERTIFICATE

This to certify that major project work entitled "COMPENSATION OF REACTIVE POWER USING STATCOM" is a benefited project work carried out by

NCHPRANAVI

(17E11A0255)

K.KALYAN

(17E11A0279)

K.AKHIL

(16E11A0278)

in the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpatnam is submitted to **Jawahar Lal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B.Tech** degree in **Electrical and Electronics Engineering** during **2017-2021**.

Guide:

Dr. J.SUKANTH

Assistant Professor

Dept of EEE,

Bharat Institute of Engineering and Technology,

Ibrahimpatnam - 501510, Hyderabad

Visa-Voca held on _____

Internal Examiner

Head of the Department:

Dept of EEE,

Bharat Institute of Engineering and Technology,

Ibrahimpatnam - 501 510, Hyderabad.

External Examiner



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC, Accredited by NBA (UG Programmes: EEE, CSE, ECE & Mechanical) Approved by AICTE &

Affiliated to JNTUH Hyderabad

Ibrahimpattam - 501 510, Hyderabad

CERTIFICATE

This to certify that major project work entitled "RFID BASED DIGITAL LIBRARY SYSTEM AND ALERTS" is a benefited project work carried out by

| | |
|------------------------|-------------------|
| B.PAVITHRA | 17E11A0204 |
| M.CHANDRASEKHAR | 17E11A0229 |
| M.SHARATH | 18E15A0212 |
| M.SHIVA | 17E11A0246 |

in the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfilment of the requirements for the award of **B. Tech** degree in **Electrical and Electronics Engineering** during **2017-2021**.

Guided

Mr. P. Sravan Kumar

Assistant Professor

Dept of EEE,

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:

Professor

Dept of EEE,

Bharat Institute of Engineering and Technology
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(Accredited by NAAC, Accredited by NBA (UG Programs: EEE, CSE, ECE & Mechanical) Approved by
AICTE & Affiliated to JNTUH Hyderabad
Ibrahimpatnam - 501 510, Hyderabad, Telangana



CERTIFICATE

This to certify that major project work entitled "DESIGN AND IMPLEMENTATION OF BLUETOOTH ENERGY METER" is a benefited project work carried out by

| | |
|----------------------|--------------|
| C.SRI HARSHITHA | (17E11A0205) |
| M. RUDRA SAI PRASAD | (17E11A0225) |
| N. LALITHA MADHULIKA | (17E11A0206) |
| S.SHUBHAM | (15E11A0298) |

In the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpatnam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B.Tech degree in Electrical and Electronics Engineering** during 2017-2021.

Guide: *Bipul Krishna Sahu*

Mr BIPUL KRISHNA SAHU

Assistant Professor

Dept. of EEE,

Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Viva-Voce held on -----

Internal Examiner

Head of the Department:

J. BHAGWAN REDDY

Assistant Professor

Dept. of EEE,

Bharat Institute of Engineering and Technology
Ibrahimpatnam – 501 510, Hyderabad.

External Examiner



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC, Accredited by NBA (UG Programmes - EEE, CSE, ECE & Mechanical) Approved by AICTE &

Affiliated to JNTUH Hyderabad

Ibrahimpattam - 501 510, Hyderabad

CERTIFICATE

This to certify that major project work entitled "RESISTIVE TOUCH SCREEN SPEED MONITORING & CONTROLLING OF AC MOTOR WITH SPEED LIMITS ALERTS" is a benefited project work carried out by

| | |
|---------------------------|-------------------|
| KORRA GANESH | 18E15A0203 |
| KAVELINTI SURESH | 17E11A0244 |
| A.V.N.S. AKASH | 17E11A0223 |
| GOMMANI SAI VAMSHI | 18E15A0208 |

in the Department of Electrical and Electronics Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattam is submitted to **Jawaharlal Nehru Technological University**, Hyderabad in partial fulfilment of the requirements for the award of **B. Tech** degree in **Electrical and Electronics Engineering** during **2017-2021**.

Guide:

Mr. P. Sravan Kumar

Assistant Professor

Dept of EEE,

Bharat Institute of Engineering and Technology,

Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:

Professor

Dept of EEE,

Bharat Institute of Engineering and Technology

Ibrahimpattam - 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC, Accredited by NBA (UG Programmes: EEE, CSE, ECE & Mechanical)

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Ibrahimpatnam - 501 510, Hyderabad



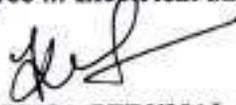
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This to certify that major project work entitled "**DESIGN AND DEVELOPMENTS OF A COMPLETE SMART HOME BY USING INTERNET OF THINGS (IOT)**" is a benefited project work carried out by

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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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CERTIFICATE

This to certify that major project work entitled "DESIGN OF NEW DC-DC CONVERTER TOPOLOGY FOR SOLAR PV BASED BATTERY CHARGING SYSTEM" is a benefited project work carried out

By

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Certificate

This is to certify that the Major project work entitled **“A NINE LEVEL GRID CONNECTED CONVERTER TOPOLOGY FOR SINGLE PHASE TRANSFORMERLESS PV SYSTEM”** is the benefited project work carried

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This is to certify that the Major project work entitled “**WIRELESS 3 PHASE MOTOR STARTER USING RF TECHNOLOGY AND ITS APPLICATIONS**” is the benefited project work carried out

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CERTIFICATE

This to certify that mini project work entitled "**POWER QUALITY ENHANCEMENT OF GRID TIED PV SYSTEM WITH UNIFIED POWER QUALITY CONTROLLER**" is a benefited Project work carried out by

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This to certify that the Major Project work entitled "**DESIGN AND SIMULATION OF HYBRID SOLAR-WIND POWER GENERATION**" is a benefited project work carried out

By

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This to certify that mini project work entitled "**MATLAB MODELLING AND ANALYSIS OF MULTI MACHINE 9-BUS SYSTEM WITH HYBRID FACTS CONTROLLER**" is a benefited project work carried out by

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| NENAVATH NEHRU | 16E11A0286 |

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CERTIFICATE

This is to certify that the Major Project work entitled "DESIGN AND ANALYSIS OF A MICRO INVERTER FOR PV PLANTS" is a benefited project work carried out

By

YADA MOUNIKA
VELMA BHARGAV
JULURI SINDHUJA
TALUSANI KRANTI KUMAR

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LEVER OPERATED PESTICIDES SPRAYER WITH CRANK MECHANISM

Submitted to

Jawaharlal Nehru Technological University Hyderabad

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

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(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)

Mangalpally (V), Ibrahimpatnam-501510, R.R.Dist., Telangana, Hyderabad.

2020-2021

A Major Project Report

On

ARDUINO CNC FOAM CUTTING MACHINE

Submitted to

Jawaharlal Nehru Technological University Hyderabad

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

in

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2020-2021

A
MAJOR PROJECT
REPORT ON
FABRICATION OF AUTOMATED SEEDSOWING AND PESTICIDES SPRAYING
AGRICULTURAL ROBOT.
Submitted to

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In partial fulfillment of the requirements for the award of the degree

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2020-2021

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2020-2021

A Major Project Report

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PNEUMATIC PAPER CUP MAKING MACHINE

Submitted to

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In partial fulfillment of the requirements for the award of the degree of

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2020-2021

A Major Project Report

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MODIFIED SOLAR AIR DRYER – A CASE STUDY

Submitted to

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In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)

Mangalpally (V), Ibrahimpatnam-501510, R.R.Dist., Telangana, Hyderabad.

2020-2021

A Major Project Report

On

PNEUMATIC PAPER CUP MAKING MACHINE

Submitted to

Jawaharlal Nehru Technological University Hyderabad

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

By

| | |
|----------------------|-------------------|
| P.SURESH | 17E11A0349 |
| M.SHIVA KUMAR | 17E11A0351 |
| R.ANIL KUMAR | 17E11A0361 |
| P.YESHWANTH | 18E15A0323 |

Under The Guidance Of

Mr.Naveen Krishna

Asst. Professor, ME



DEPARTMENT OF MECHANICAL ENGINEERING

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2020-2021

MAJOR PROJECT**REPORT ON****FABRICATION OF AUTOMATED SEEDSOWING AND PESTICIDES SPRAYING
AGRICULTURAL ROBOT.**

Submitted to

Jawaharlal Nehru Technological University, Hyderabad

In partial fulfillment of the requirements for the award of the degree

of

BACHELOR OF TECHNOLOGY**IN****MECHANICAL ENGINEERING****BY****ERAGADINDLA SANDEEP KUMAR** 18E15A0315**KANERI DINESH** 18E15A0316**MANNAM VAMSHI** 18E15A0318**VADLA HARISH KUMAR** 18E15A0326**Under The Guidance Of****Mr. B. HEMASUNDER****DEPARTMENT OF MECHANICAL ENGINEERING****BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY***(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by**NBA) Mangalpally (V), Ibrahimpatnam-501510, Hyderabad, Telangana.***2020-2021**

A

MAJOR PROJECT

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ERAGADINDLA SANDEEP KUMAR 18E15A0315

KANERI DINESH 18E15A0316

MANNAM VAMSHI 18E15A0318

VADLA HARISH KUMAR 18E15A0326

Under The Guidance Of

Mr. B. HEMASUNDER



DEPARTMENT OF MECHANICAL ENGINEERING

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2020-2021

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18E15A0326

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MANNAM VAMSHI

18E15A0318

Under The Guidance Of

Mr. B. HEMASUNDER



DEPARTMENT OF MECHANICAL ENGINEERING

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2020-2021

A

MAJOR PROJECT

ON

**DESIGN AND DEVELOPMENT OF TESTER FOR ANALYSING
EROSION RESISTANCE**

Submitted to

Jawaharlal Nehru Technological University, Hyderabad

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

BY

SUKKA DINDI

18E15A0325

Under The Guidance Of

Dr. MITHLESH SHARMA



DEPARTMENT OF MECHANICAL ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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MECHANICAL ENGINEERING

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KONDURI NITHISH 18E15A0317

Under The Guidance Of

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DEPARTMENT OF MECHANICAL ENGINEERING

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NALAVATH MADHU NAIK 18E15A0321

Under The Guidance Of

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SHAIK SAQAFEE TALAHA 18E15A0324

SUKKA DINDI 18E15A0325

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2020-2021

**LEVER OPERATED PESTICIDES SPRAYER WITH CRANK
MECHANISM**

Submitted to

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In partial fulfillment of the requirements for the award of the degree of

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IN

MECHANICAL ENGINEERING

By

B.ANVESH

17E11A0356

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Asst. Professor, ME



DEPARTMENT OF MECHANICAL ENGINEERING

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| K.JITENDER REDDY | 17E11A0338 |
| P.YASHWANTH REDDY | 17E11A0345 |
| G.SHYAM PRASAD REDDY | 17E11A0360 |
| MD.HAMZA MOHUDDIN | 17E11A0368 |

Under The Guidance of

Mr. Dheeraj Joshi

Asst. Professor, ME



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ARDUINO CNC FOAM CUTTING MACHINE

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in

MECHANICAL ENGINEERING

By

E. DASRU

17E15A0308

Under The Guidance Of

Dr. J. P. SINGH

PRINCIPAL, ME



DEPARTMENT OF MECHANICAL ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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SHAIK SAQAFEE TALAHA 18E15A0324

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Dr. MITHLESH SHARMA



DEPARTMENT OF MECHANICAL ENGINEERING

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SUKKA DINDI **18E15A0325**

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2020-2021



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)
Ibrahimpattam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled 'Design and implementation of hybrid adder'.

By

K.Priyanka
J.Sravya reddy
N.Shiva prasad reddy
p.Nikhilesh

(17E11A0410)
(17E11A0416)
(17E11A0426)
(17E11A0430)

in the Department of Electronics And Communication Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Electronics And Communication Engineering during 2020-2021.

Guide:

M B R Srinivas

Assistant professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:

Dr. Rajeev Sreevasthava

Professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
**BHARAT INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)

Ibrahimpatnam - 501 510, Hyderabad

Certificate

*This is to certify that the project work entitled is " SMART VILLAGE
MONITORING SYSTEM" the bonafide work done*

By

| | |
|--------------------------|--------------|
| DEVARAJ SHRUTHI | (17E11A0402) |
| KALLAPPAGARI SAMYUKTHA | (17E11A0414) |
| MANTHA SAI SANTOSH KUMAR | (17E11A0421) |
| KODE VIKAS KUMAR | (17E11A0428) |

*in the Department of Electronics And Communication Engineering, BHARAT
INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is
submitted to Jawaharlal Nehru Technological University, Hyderabad in partial
fulfillment of the requirements for the award of B. Tech degree in Electronics And
Communication Engineering during 2020-2021.*

Guide:

Dr. SANJAY KUMAR SUMAN
Professor, ECE

Head of the Department:

Dept of ECE
Bharat Institute of Engineering and Technology,
Ibrahimpatnam - 501 510, Hyderabad.

Dept of ECE
Bharat Institute of Engineering and Technology,
Ibrahimpatnam - 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)
Ibrahimpatnam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "Smart Parking System Using Raspberry pi" is the bonafide work done

By

CH SUPRIYA
R MANJULA
S KRISHNAVAMSHI
K RACHANA

17E11A0407
17E11A0412
17E11A0431
18E15A0405

in the Department of Electronics And Communication Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Electronics And Communication Engineering during 2020-2021.

Guide: 
MR T V SURESH

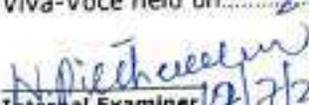
Assistant Professor
Dept of ECE
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Head of the Department:

DR. RAJEEV SREVASTHA PROFESSOR

Dept of ECE
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Viva-Voce held on..... 26/6/2021.....


Internal Examiner 19/7/2021


External Examiner



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)
Ibrahimpattanam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "Communication Between Two Arduino's Using LoRa" is the bonafide work done

By

K. Usha Mallika
S. Pruthvi Raj
R. Karthik
J. Reshma

(17E11A0409)
(17E11A0437)
(17E11A0438)
(18E15A0401)

in the Department of Electronics And Communication Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Electronics And Communication Engineering during 2020- 2021.

Guide: 

Dr. Shahnaz K V

Associate professor

Dept. of ECE

Bharat Institute of Engineering and Technology,
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Head of the Department: 

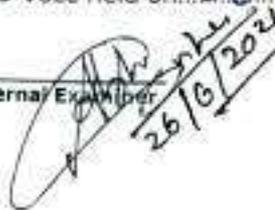
Dr. Rajeev Shrivastava

Associate Professor

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Viva-Voce held on... 26-06-2021

Internal Examiner 
26/6/2021

External Examiner 
26/6/21



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH Hyderabad, Approved by AICTE & Accredited by NAAC and NBA)

(UG Programmes: EEE, ECE, ME & CSE)

Ibrahimpattam - 501 510, Hyderabad, Telangana.

DECLARATION

We hereby declare that this Major Project Report is titled “**COMMUNICATION BETWEEN TWO ARDUINO’S USING LoRa**” is a genuine work carried out by us in **B.Tech (Electronics and Communication Engineering)** degree course of **Jawaharlal Nehru Technology University Hyderabad**, and has not been submitted to any other course or university for the award of the degree by us.

| Name | Roll No. | Signature of the Student |
|----------------|------------|--------------------------|
| K.Usha Mallika | 17E11A0409 | K.Usha |
| S.Pruthvi Raj | 17E11A0437 | S.Pruthvi |
| R.Karthik | 17E11A0438 | R.Karthik |
| J.Reshma | 18E15A0401 | J.Reshma |



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)

Ibrahimpattam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "AQUACULTURE MONITORING AND CONTROL SYSTEM" is the bonafide work done

By

| | |
|-------------|------------|
| M.HARATHI | 17E11A0439 |
| L.RAJESH | 17E11A0460 |
| A.RADHIKA | 17E11A0446 |
| D.SRAVANTHI | 17E11A0448 |

in the Department of Electronics And Communication Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B.Tech** degree in **Electronics And Communication Engineering** during 2020-2021.

Guide:

D.Sankara Reddy

Assistant Professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:

Dr.Rajeev Srivastava

Associate Professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voce held on

Internal Examiner

External Examiner



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)
Ibrahimpattanam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "IOT based ambulance route clearance system and theft vehicle detection" is the bonafide work done

By

A. Vijay Kumar 17E11A0455

Y. Vikas Reddy 17E11A0457

S. Pruthvish 17E11A0470

T. Uday Kumar 17E11A0476

in the Department of Electronics and Communication Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B. Tech degree in Electronics And Communication Engineering during 2020-2021.

Guide:

Prashant Bachanna

Asst. Professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Technology,

Ibrahimpattanam - 501 510, Hyderabad.

Head of the Department:

Dr. Rajeev Srivastava

Professor

Dept of ECE

Bharat Institute of Engineering and

Ibrahimpattanam - 501 510, Hyderabad.

Viva-voice held on

29/6/2021
Internal Examiner

6/7/2021

28/6/21
External Examiner

External Examiner



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)
Ibrahimpattam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "IOT based smart waste management system" is the bonafide work done

By

K.Praveen Reddy 17E11A0452

Ch.Sai Teja 17E11A0464

M.Vinay Kumar 18E15A0402

A.Mahesh 17E11A0472

in the Department of Electronics and Communication Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B. Tech degree in Electronics And Communication Engineering during 2020-2021.

Guide:

Dr.Papiya Dutta

Associate Professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Technology,

Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:

Dr.Rajeev Srivastava

Professor and Head

Dept of ECE

Bharat Institute of Engineering and

Ibrahimpattam - 501 510, Hyderabad.

Viva-voice held on

26/6/2021

Internal Examiner
3/7/21

9/7/21

External Examiner



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited
by NBA)
Ibrahimpattanam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "Cloud Based Home Automation" is the bonafide work done

By

| | |
|---------------|--------------|
| S.Srikanth | (17E11A04E8) |
| B.Gadader Rao | (17E11A04F1) |
| A.Deekshith | (17E11A04C9) |
| N.Akhil | (16E11A04H1) |

is the Department of Electronics And Communication Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad in partial fulfillment of the requirements for the award of B. Tech degree in Electronics And Communication Engineering during 2020-2021.

Guide: *Madam*
9/19/21
Neeta Ingale
Assistant professor
Dept of ECE

Prof
Head of the Department:
RAJIV SRIVASTHAVA
Professor
Dept of ECE

Bharat Institute of Engineering and Technology,
Institute of Engineering and Technology,
Ibrahimpattanam - 501 510, Hyderabad.
501 510, Hyderabad.

Bharat
Ibrahimpattanam -

Viva-Voce held on *4/7/21*

Neeta Ingale
.....
.....

Internal Examiner
External Examiner



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, Approved by AICTE & Accredited by
NAAC and NBA)
(UG Programmes: EEE, ECE, ME & CSE)
Ibrahimpatnam - 501 510, Hyderabad, Telangana.

DECLARATION

We hereby declare that this Major Project Report is titled "Cloud Based Home Automation" is a genuine work carried out by us in B.Tech (Electronics and Communication Engineering) degree course of Jawaharlal Nehru Technology University Hyderabad, and has not been submitted to any other course of university for the award of the degree by us.

| Name | Roll Nos | Signature of the Student |
|----------------|------------|--------------------------|
| S. Srikanth | 17E11A04E8 | |
| B. Gadader Rao | 17E11A04F1 | |
| A. Deekshith | 17E11A04C9 | |
| N. Akhil | 16E11A04H1 | |



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)

Ibrahimpattam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "Performance Evaluation of Energy Detection based Spectrum Sensing Techniques for Cognitive Radio Networks under Fading Channel" is the bonafide work done

By

| | |
|--------------------------|------------|
| Sanaboyina Vajra Kireeti | 17E11A0459 |
| B. Sai Siddhartha Goud | 17E11A0474 |
| Thati Vijay Kumar | 17E11A0467 |
| Puli Sukesh Goud | 17E11A0461 |
| Galipalli Pooja | 17E11A0449 |

in the Department of Electronics And Communication Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B. Tech degree in Electronics And Communication Engineering during 2019-2020.

Guide:

Dr. Abhishek Kumar

Assistant Professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:

Dr Rajeev Srivastava

Associate Professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voco field ap.....

Internal Examiner

External Examiner



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by
NBA) Ibrahimpatnam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "DESIGN AND SYNTHESIS
OF A FIELD PROGRAMMABLE CRC CIRCUIT ARCHITECTURE" is
the bonafide work done

By

R.MEENA

18E15A0403

M.ANUSHA

17E11A0486

A.BHAVYASRI

17E11A0477

S.NIHARIKA

17E11A0481

in the Department of Electronics And Communication Engineering, BHARAT INSTITUTE
OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to **Jawaharlal
Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for
the award of B.Tech degree in **Electronics And Communication Engineering** during 2017-
2021.

Guide:

N.PITCHESHWAR RAO

Assistant professor

Dept of ECE

Bharat Institute of Engineering and

Technology,

Ibrahimpatnam – 501 510, Hyderabad.

Head Of The Department:

DR:RAJEEV SRIVASTAVA

Professor

Dept of ECE

Bharat Institute of Engineering and

Technology,

Ibrahimpatnam – 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC, Accredited by NBA (UG Programmes- CSE, ECE, EEE & Mechanical) Approved by AICTE, Affiliated to JNTU-H Hyderabad
Ibrahimpatnam-501 510, Hyderabad, Telangana
2020-2021

Certificate

This is to certify that the project work entitled “Design and Implementation of Smart Gloves for Visually Impaired” is the bonafide work done

By

| | |
|---------------------|------------|
| Kotagadda Sowmya | 17E11A0490 |
| Mudhireddy Sreeja | 17E11A0494 |
| Sirigadda Maneesha | 17E11A0489 |
| Middinti Sravani | 17E11A0484 |
| Potlapalli Vaibhavi | 17E11A0483 |

In the Department of Electronics and Communication Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Electronics and Communication Engineering during 2017- 2021.

Guide:


Mr. JOY SANGEETH RAJ

Assistant Professor

Dept of ECE,

Bharat Institute of Engineering and Technology, Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.


Head of the Department:

Dr. RAJEEV SRIVASTAVA

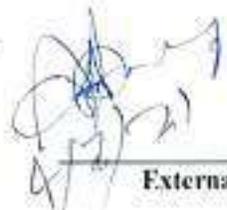
Professor

Dept of ECE

Bharat Institute of Engineering and Technology, Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Viva-Voice held on.....


Internal Examiner


External Examiner

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH Hyderabad, Approved by AICTE & Accredited by NAAC and NBA)
Ibrahimpattam - 501 510, Hyderabad, Telangana.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

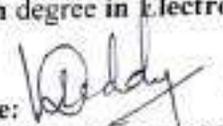
This is to certify that the project work entitled "Recent Trends in Low Power Vlsi Design" is the bonafide work done

By

Y. Yamini
L. Sai Bindu
N. Shirisha
A. Kranthi Goud

(17E11A0403)
(17E11A0404)
(17E11A0406)
(17E11A0432)

in the Department of Electronics And Communication Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B.Tech degree in Electronics And Communication Engineering** during 2020-2021.

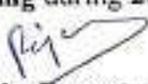
Guide: 
Mr. G. Surender Reddy

Assistant professor

Dept of ECE

Bharat Institute of Engineering and Technology,

Technology, Ibrahimpattam - 501 510, Hyderabad.


Head of the Department:

Dr. Rajeev Sreevasthava

Professor

Dept of ECE

Bharat Institute of Engineering and

Technology, Ibrahimpattam - 501 510, Hyderabad.

Viva-Voce held on 26/06/2021


Internal Examiner


External Examiner



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Affiliated to JNTU Hyderabad, Approved by AICTE and Accredited by NBA)
Irachampetnam - 501 510, Hyderabad

CERTIFICATE

This is to certify that the project work entitled **“MATLAB SIMULATION AND ANALYSIS OF MULTIMACHINE 9-BUS SYSTEM WITH HYBRID FACTS CONTROLLER”** is the bonafide work done

By

C SANGEETHA
V ARUNA

V SHASHIDHAR REDDY
CH SHIVA KUMAR

17E11A0405
17E11A0413
17E11A0419
17E11A0434

In the Department of Electronics and Communication Engineering, Bharat Institute of Engineering and Technology, Irachampetnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B. Tech degree in **Electronics and Communication Engineering during 2017-**

2021.

Grade
Mr. L RAVI KUMAR

Assistant Professor

Dept. of ECE

Bharat Institute of Engineering and Technology
Irachampetnam - 501 510, Hyderabad

Head of the Department:

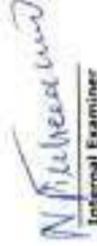
Dr. Rajeev Seetharama

1101D

Dept. of ECE

Bharat Institute of Engineering and Technology
Irachampetnam - 501 510, Hyderabad

Viva-Voce held on **26.06.2021.**


Internal Examiner


External Examiner



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)
Ibrahimpattam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "OBJECT DETECTION AND MASK DETECTION WITH YOLO AND OPEN CV" is the bonafide work done

By

K.SAI CHETHAN REDDY - 17E11A0422
K. SAI KRISHNA - 17E11A0423
S.SANTHOSH REDDY - 17E11A0427
K.MANIKANTA - 16E11A0486

in the Department of Electronics And Communication Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Electronics And Communication Engineering during 2020-2021.

Guide:

Dr RAJEEV SHRIVASTAVA

ASSOCIATE PROFESSOR

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:

Dr RAJEEV SHRIVASTAVA

ASSOCIATE PROFESSOR

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voce held on 4/7/21

[Signature]
Internal Examiner

[Signature]
External Examiner



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH Hyderabad, Approved by AICTE and Accredited by NBA)
Ibrahimpattam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "IOT BASED HOME AUTOMATION" is the bonafide work done

By

ADULRA ROHITH REDDY
EMIDI PHANISREE
KOMERISHETTY CHANDRAKANTH
POTLAPALLY DAKSHATHA

17E11A0420
17E11A0408
17E11A0433
17E11A0415

in the Department of Electronics And Communication Engineering, *BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY*, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Electronics And Communication Engineering during 2020-2021.

Guide:

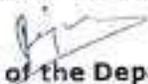

DR. AMIT AGARWAL

Professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:


DR. RAJEEV SRIVASTAVA

Professor

Dept of ECE

Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voce held on.....


Internal Examiner


External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC, Accredited by NBA (UG Programmes: CSE, ECE, EEE & Mechanical)
Approved by AICTE, Affiliated to JNTUH Hyderabad
Ibrahimpattanam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "Women Security With SMS Alert Based Android Application" is the bonafide work done

By

| | |
|------------|------------|
| S.Mrudhula | 17E11A0515 |
| G.Swathi | 17E11A0503 |
| B.Srinusha | 17E11A0506 |
| C.Niharika | 16E11A0546 |

In the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021.

Guide: 
Suyash Agrawal
Assistant Professor
Dept of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpattanam - 501 510, Hyderabad.

Head of the Department: 
Suyash Agrawal
Assistant Professor
Dept of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpattanam - 501 510, Hyderabad.

Viva-Voce held on.....27/6/2021.....


Internal Examiner

External Examiner



DEPARTMENT OF INFORMATION TECHNOLOGY
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC, Accredited by NBA (UG Programmes: CSE, ECE, EEE & Mechanical)
Approved by AICTE, Affiliated to JNTUH Hyderabad

Ibrahimpattanam - 501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "EMPLOYEE HIRING SYSTEM"
is the bonafide work done

By

| Candidate Name(s) | Roll Number |
|----------------------------|---------------------|
| YANUGULA MANASA | (17E11A1209) |
| ROYYALA MOUNIKA | (17E11A1213) |
| KALLEM AISHWARYA | (17E11A1214) |
| CHIPPA SINDHU | (17E11A1215) |
| MADINI AKHILA REDDY | (17E11A1219) |

in the Department of Information Technology, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Information Technology during 2017-2021.

Guide:

Mangesh
Mr. MANGESH MATKE

Assistant Professor
Dept of CSE
Bharat Institute of Engineering and Technology,
Ibrahimpattanam - 501 510, Hyderabad.

Head of the Department:

Suyash
Mr. SUYASH AGRAWAL

Assistant Professor
Dept of CSE
Bharat Institute of Engineering and Technology,
Ibrahimpattanam - 501 510, Hyderabad.

Viva-Voiceheld on 29/6/2024

[Signature]
Internal Examiner

External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC, Accredited by NBA (UG Program's: CSE, ECE, EEE & Mechanical)

Approved by AICTE, Affiliated to JNTUH Hyderabad

Ibrahimpattanam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the Industry Oriented Major Project work entitled "Crop yield prediction based on Indian agriculture using machine learning" is the bonafide work done by

| | |
|--------------------------|-------------------|
| J. CHANTI KUMAR | 17E11A0572 |
| A.SAI KUMAR | 17E11A0568 |
| MD.ALI | 17E11A0580 |
| Y. HARSHA VARDHAN | 17E11A0575 |
| B. VASU KUMAR | 17E11A0581 |

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B. Tech degree in Computer Science and Engineering during 2017-2021

Guide:

Dr. Vivek Singh

Associate Professor

Dept of Computer Science and Engineering,
Bharat Institute of Engineering and Technology,
Ibrahimpattanam-501 510, Hyderabad.

Head of the Department

Mr. Suyash Agarwal

Assistant Professor

Dept of CSE & IT,
Bharat Institute of Engineering and Technology
Ibrahimpattanam- 501 510, Hyderabad.

Viva-Voce held on 29-06-2021

Internal Examiner

External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC, Accredited by NBA (UG Programmes: CSE, ECE, EEE & Mechanical) Approved by AICTE, Affiliated to JNTU Hyderabad
Ibrahimpattanam-501506, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "**TWITTER SENTIMENT ANALYSIS FOR MARKET ANALYSIS**" is the bonafide work done

by

B SAI SANKAR

17E11A05D1

RAHUL RAI DAHIRE

17E11A05D0

DINESH REDDY

17E11A05B5

SURYA TEJA MAKKA

17E11A05C4

In the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021.

Guide:

Mr. Amit Sharma

Assistant Professor

Dept of CSE,

Bharat Institute of Engineering and Technology,
Technology, Ibrahimpattanam - 501 510, Hyderabad

Head of the Department:

Mr. Suyash Agarwal

Assistant Professor

Dept of CSE

Bharat Institute of Engineering and
Ibrahimpattanam - 501 510, Hyderabad

Viva-Voce held on 29-06-2021

Internal Examiner

External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC, Accredited by NBA (UG Programmes: CSE, ECE, EEE & Mechanical)

Approved by AICTE, Affiliated to JNTUH Hyderabad

Ibrahimpattanam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "**INTELLIGENT TRANSPORTATION SYSTEM FOR SMART TRAVELLING BASED ON TRAFFIC PREDICTION USING MACHINE LEARNING**" is the bonafide work done

By

| | |
|-------------------|------------|
| K. Pavani Reddy | 17E11A0593 |
| G. Niharika | 17E11A05A2 |
| J. Rohitha | 17E11A0590 |
| P. Vishnu Vandana | 17E11A05A1 |
| N. Meghana | 17E11A05A7 |

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B.Tech** degree in **Computer Science and Engineering during 2017-2021**.

Guide:

Farhana Bano

Mrs. Farhana Bano

Assistant Professor

Dept of CSE

Bharat Institute of Engineering and Technology

Ibrahimpattanam-501510, Hyderabad

Head of the Department:

Suyash Agarwal

Mr. Suyash Agarwal

Assistant Professor

Dept of CSE & IT

Bharat Institute of Engineering and Technology

Ibrahimpattanam-501510, Hyderabad

Viva-Voce held on 29/06/2021

[Signature]
Internal Examiner

External Examiner



Department of Computer Science and Engineering
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC, Accredited by NBA (UG Programmes: CSE, ECE, EEE & Mechanical)
 Approved by AICTE, Affiliated to JNTUH Hyderabad
 Ibrahimpatnam -501 510, Hyderabad, Telangana

Certificate

This is to certify that project work entitled “**Helmet Detection And License Plate Recognition using Machine Learning**” is the bonafide work done

| | |
|-----------------|------------|
| D.VIDYA SAGAR | 17E11A0521 |
| K. RAJESH GOUD | 17E11A0531 |
| C.H VIKAS MOHAN | 17E11A0533 |
| VIMESH KUMAR | 16E11A0525 |

In the Department Of Computer Science And Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, IBRAHIMPATNAM** is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of B.Tech in **Computer Science and Engineering** during 2017-2021.

Guide: *27/06/2021*
 Dr. N. Sri Hari Rao
 Associate Professor
 Dept of CSE,
 Bharat Institute of Engineering and Technology,
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Head of Department: *Suyash*
 Mr. Suyash Agarwal
 Assistant professor
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Viva-Voce held on 27-06-2021

Internal Examiner

27/06/2021

External Examiner



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Ibrahimpattanam - 501 510, Hyderabad, Telangana.

Certificate

This is to certify that the project work entitled "**Abnormal driving behavior detection via deep learning approaches**" is the Bonafide work done

By

PAVAN SAI VEERULA

(17E11A0519)

V.VIVEK

(17E11A0520)

NANDA KISHORE

(17E11A0524)

PRASHANTH

(17E11A0525)

A.VAMSHI

(17E11A0511)

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017- 2021.

03 - Sujay B. K. 19/07/2021

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Mr.SUYASH AGARWAL

Assistant Professor

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Viva-Voce held on.....


Internal Examiner

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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH Hyderabad, Approved by AICTE & Accredited by NAAC) Ibrahimpatnam - 501
510, Hyderabad.

Certificate

This is to certify that the Project Report entitled "BRAIN TUMOR DETECTION USING
MACHINE LEARNING" is the bonafide work done by

| | |
|-----------------|------------|
| CH PRABHU KUMAR | 16E11A05D4 |
| CH HEMANTH | 17E11A0544 |
| V NAVEEN KUMAR | 17E11A0532 |
| M BABU | 17E11A0536 |

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF
ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru
Technological University, Hyderabad in partial fulfillment of the requirements for the
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Head of the Department:

MR. SUYASH AGARWAL

Assistant Professor

Dept of CSE & IT,

Bharat Institute of Engineering and
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Hyderabad

Viva-Voice held on

Internal Examiner

External Examiner



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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Approved by AICTE, Affiliated to JNTUH Hyderabad
Ibrahimpattam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "A Novel Adaptive Resource Allocation based on SMDP and Reinforcement Learning in Vehicular Cloud System" is the bonafide work done

By

| | |
|----------------------|------------|
| D VENKATESHWAR REDDY | 17E11A0529 |
| MUSKU VAMSHI REDDY | 17E11A0528 |
| GANESH REDDY NEELA | 17E11A0526 |
| ELKAPELLI NAGARJUN | 15E11A0521 |
| P KRISHNA KISHORE | 17E11A0523 |

in the Department of Computer Science and Engineering BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfilment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021.

Guide:

Mr. Romy Sinha

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Head of the Department:

Mr. Suyash Agarwal

Assistant Professor,
Dept of CSE,
Bharat Institute of Engineering and Technology,
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Viva-Voce held on.....

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Approved by AICTE, Affiliated to JNTUH Hyderabad

Ibrahimpatnam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "MISSING CHILD IDENTIFICATION SYSTEM USING DEEP LEARNING THROUGH PYTHON" is the bonafide work done

By

| | |
|------------------|------------|
| G. Tejaswini | 17E11A0595 |
| G. Keerthi Reddy | 17E11A0594 |
| P. Anudeepa | 17E11A0596 |
| P. Jahnavi | 17E11A05A4 |

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Guide: 
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Assistant Professor
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Head of the Department: 
Mr. Suyash Agarwal
Assistant Professor
Dept of CSE

Bharat Institute of Engineering and
Ibrahimpatnam – 501 510, Hyderabad.

Viva-Voceheld on.....


Internal examiner

External Examiner

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY



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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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Ibrahimpattam - 501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "An Automatic Digital Audio Authentication" is the bonafide work done

By

| | |
|--------------------------|------------|
| <i>A. Saikiran Reddy</i> | 17E11A05B0 |
| <i>K. S. Srineketh</i> | 17E11A05B1 |
| <i>A. Nithin</i> | 17E11A05B6 |
| <i>T. Daniel Paul</i> | 17E11A05C5 |

In the Department of Computer Science and Engineering BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021.

Guide: 29/06/21
Dr. N. Srihari Rao
Assistant Professor
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Head of the Department:
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Assistant Professor
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Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voice held on

29-06-2021

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Ibrahimpatnam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the Project work entitled "FRUIT COUNTING ON TREE FOR AUTOMATIC INVENTORY MANAGEMENT" is the bonafide work done

By

CHIRRA SUSHMA (17E11A0547)

NEELA MOUNIKA (17E11A0552)

KASANI BHARGAVI (17E11A0555)

SAMALETI DIVYA (17E11A0559)

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B. Tech degree in Computer Science and Engineering during 2017- 2021.

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Head of the Department

Mr. Suyash Agrawal

Assistant Professor

Dept of Computer Science and Engineering
Bharat Institute of Engineering and Technology
Ibrahimpatnam- 501 510, Hyderabad

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**BHARAT INSTITUTE OF ENGINEERING AND
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Ibrahimpatnam-501 510, Hyderabad, Telangana.

Certificate

*This is to certify that the project work entitled "HUMAN
COMPUTER INTERACTION BASED EYE CONTROLLED MOUSE "is
the bonafide work done*

By

D. YAMINI
T. HARIKA
V. NIKITHA
B. SOWMYA

17E11A05D7
17E11A05D6
17E11A05E3
17E11A05E7

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OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to
Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of
the requirements for the award of B.Tech degree in Computer Science and
Engineering during 2017- 2021.*

Guide:


Dr.K.Thirupal Reddy

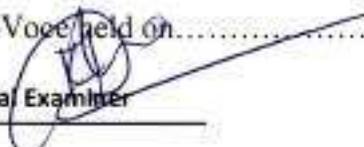
Assistant Professor
Dept of CSE
Bharat Institute of Engineering and Technology
Ibrahimpatnam-501510,Hyderabad.

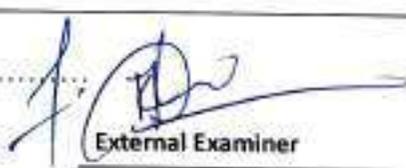
Head of Department:


Mr.Suyash Agrawal

Assistant Professor
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Ibrahimpatnam-501510,Hyderabad.

Viva-Voce held on.....


Internal Examiner


External Examiner



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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Ibrahimpattam - 501 510, Hyderabad

Certificate

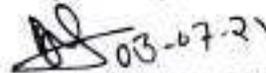
This is to certify that the project work entitled "SMART TRAFFIC CONTROL SYSTEM USING IMAGE" is the bonafide work done

By

M.BHANUPRAKASH REDDY
B.MADANMOHAN
CH.ROSHAN REDDY
MD.IMROZE
SAI PRASAD

(17E11A05F5)
(17E11A05F4)
(17E11A05F8)
(17E11A05H1)
(16E11A05L1)

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Guide: 
MR. BHAGVAN KRISHNA GUPTA

ASSISTANT PROFESSOR

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Head of the Department: 

Mr. Suyash Agarwal

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Viva-Voce held on 28/6/2021


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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Approved by AICTE, Affiliated to JNTUH Hyderabad

Ibrahimpattanam -501 510, Hyderabad, Telangana

Certificate

*This is to certify that the project work entitled "AUTOMATED STUDENT
REAL TIME ATTENDANCE SYSTEM USING FACE RECOGNITION" is the bonafide
work done*

By

N.CHARAN REDDY (17E11A05F3)

S.RAHUL REDDY (17E11A05H8)

M.MANOJ YADAV (17E11A05G3)

P.VAMSHI (17E11A05H2)

*in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF
ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal
Nehru Technological University, Hyderabad in partial fulfillment of the requirements
for the award of B. Tech degree in Computer Science and Engineering during 2017-
21.*

Guide:

Mr. U. NARASIMHULU

Assistant Professor

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Viva-Voce held on.....

Internal Examiner

External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Ibrahimpattam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "PREDICTING USED CARS PRICE BY REGRESSION MODEL" is the bonafide work done

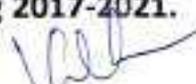
By

GOVINDU KARTHIK
JAMMULA VAMSI
SIVARAPU DHARMIK
PUTTA MANIDEEP

(17E11A05G1)
(17E11A05H9)
(17E11A05G9)
(17E11A05H7)

In the Department of Computer Science and Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfilment of the requirements for the award of **B. Tech degree in Computer Science and Engineering** during **2017-2021**.

Guide:


MR. KUSHAL GUPTA
ASSISTANT PROFESSOR

Dept of CSE,
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Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:


Mr. Suyash Agarwal
HOD

Dept of CSE,
Bharat Institute of Engineering and
Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voce held on.....


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Ibrahimpattam - 501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "Diabetes prediction by testing and visualization of pima diabetes dataset" is the bonafide work done

BY

| | |
|----------------|------------|
| Jilla Sumalini | 17E11A05D4 |
| Bittu Pavani | 17E11A05E0 |
| Gatla Jagruthi | 17E11A05E1 |
| Middela Neha | 17E11A05E5 |

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Guide:

MR.K.Bhaskar

Assistant Professor

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Head of the Department:

MR.Suyash Agarwal

Assistant Professor

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Viva-Voceheld on 28/6/2021

Internal Examiner

External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Approved by AICTE, Affiliated to JNTUH Hyderabad
Ibrahimpatnam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the Industry Oriented Major Project entitled "HAZARD IDENTIFICATION AND DETECTION USING MACHINE LEARNING APPROACH" is the Bonafide work done.

By

| | |
|------------------|--------------|
| SHAIK KARISHMA | (17E11A0589) |
| M SNEHA | (17E11A05A3) |
| G MANISHA | (17E11A0599) |
| P SHRENI | (17E11A0592) |
| G SINDHURA REDDY | (17E11A05A5) |

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Guide:
Mr. Manohar Gosul
Assistant professor Dept of
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Head of the Department:
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Assistant Professor Dept of
CSE & IT,

Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Viva-voice held on

Internal Examiner

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Ibrahimpattanam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "*Drug prediction using machine learning*" is the bonafide work done

By

B.SREENIDHI
T.VARSHITHA
V.RUTHIKA
B.BHANU

(17E11A0545)
(17E11A0554)
(17E11A0557)
(17E11A0563)

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021.

Guide:

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Bharat Institute of Engineering and Technology,
Ibrahimpattanam - 501 510, Hyderabad.

Viva-Voce held on..... 29-06-2021

Internal Examiner

External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
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Approved by AICTE, Affiliated to JNTUH Hyderabad
Ibrahimpatnam -501510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "WC-PAD web crawling based phishing attack detection" is the bonafide work done

By

| | |
|-----------------------------|------------|
| Vattem Krishna Susmitha | 17E11A05D5 |
| V.Lakshmi Manaswi Konagalla | 16E11A05K2 |
| Buddula Bhuvaneshwar | 17E11A05E2 |
| R Archana Sumanjali | 17E11A05E9 |

In the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021.

Guide:

Mrs. G. Rashmi

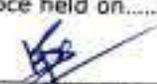
Assistant Professor
Dept of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam - 501510, Hyderabad.

Head of the Department

Mr. Suyash Agrawal

Assistant Professor
Dept of CSE,
Bharat Institute of Engineering and Technology,
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Viva-Voce held on.....


Internal Examiner


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Ibrahimpatnam-501510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "Early Prediction Of Sepsis Using Clinical Data" is the bonafide work done

By

| | |
|------------------------|------------|
| Dokuri Sunitha | 17E11A05D3 |
| Reddy Sri Varshini | 17E11A05D9 |
| Sambaraju Sai Srinidhi | 17E11A05E8 |
| Chava Sindhu Chowdary | 17E11A05F0 |

In the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021.

Guide:

Shazia
3/7/21

Ms. SHAZIA ANJUM

Assistant Professor
Dept of CSE,
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Viva-Voice held on 08/08/2021

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External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH Hyderabad, Approved by AICTE & Accredited by NAAC, Accredited by NBA)

Ibrahimpattanam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "E-NOTICE FOR COLLEGE "
is the bonafide work done.

By

N.VINOD KUMAR

17E11A05G2

K.VAMSHIDHAR REDDY

17E11A05G0

A.SHIVA KUMAR

17E11A05G6

B.P.MANISH KUMAR

16E11A05J2

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfilment of the requirements for the award of B. Tech degree in Computer Science and Engineering during 2017-2021.

Guide:

03-07-21
Mr. Bhagvan Krishna gupta

ASSISTANT PROFESSOR

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Head of the Department:

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HOD

Dept of CSE

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Technology,

Ibrahimpattanam - 501 510, Hyderabad.

Viva-Voce held on 29/6/21

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Internal Examiner

External Examiner



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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Approved by AICTE, Affiliated to JNTUH Hyderabad

Ibrahimpattanam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "COVID 19 FACE MASK DETECTOR" is the bonafide work done

By

L. VIGNESHWAR REDDY

(17E11A05A9)

M. RANJITH

(17E11A05B8)

P.VAMSHI

(17E11A05B3)

K. MADHUKAR GOUD

(17E11A05B9)

In the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021.

Guide:

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Head of the Department:

Mr.Suyash Agrawal

Assistant Professor

Dept of CSE&IT

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Ibrahimpattanam - 501 510, Hyderabad.

Viva-Voce held on.....

Internal Examiner

External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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by AICTE, Affiliated to JNTUH Hyderabad
Ibrahimpatnam - 501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "Classification of Bad Account In Credit Card Industry" is the bonafide work done

By

| | |
|-------------------------|---------------------|
| K.PRANEETH REDDY | (17E11A05F9) |
| P.VENKATESH GOUD | (17E11A05G7) |
| MOHAMMED SAIF | (17E11A05H0) |
| R.SHIVA PRASAD | (17E11A05F6) |

in the Department of Computer Science and Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpatnam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B.Tech degree in Computer Science and Engineering** during **2017- 2021**.

Guide: *Mangesh*

Mr. MANGESH MATKE
Assistant Professor
Dept. of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam - 501 510, Hyderabad.

Head of the Department: *Suyash*

MR.SUYASH AGRAWAL
Assistant Professor
Dept. of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam - 501 510, Hyderabad.

Viva-Voce held on.....

[Signature]
Internal Examiner

External Examiner



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC, Accredited by NBA (UG Programmes: CSE, ECE, EEE & Mechanical)
Approved by AICTE, Affiliated to JNTUH Hyderabad
Ibrahimpatnam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "VEHICLE AND SPEED DETECTION FROM TRAFFIC VIDEOS USING DEEP LEARNING" is the bonafide work done

By

| | |
|-------------------------|---------------------|
| ABHISHEK NIRALE | (17E11A0530) |
| V.AVINASH REDDY | (17E11A0518) |
| T. ADHVYTH REDDY | (17E11A0542) |
| D.RAMMOHANRAO M | (16E11A0550) |

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfilment of the requirements for the award of B. Tech degree in Computer Science and Engineering during 2017-21.

Guide:

Mr. K. NARASIMHULU

Assistant Professor
Dept of CSE,
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Head of the Department:

Mr. SUYASH AGARWAL

Assistant Professor
Dept of CSE
Bharat Institute of Engineering and Technology,
Ibrahimpatnam - 501 510, Hyderabad.

Viva-Voce held on..... 27-06-2021.....

Internal Examiner

External Examiner



Department of Computer Science and Engineering
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Approved by AICTE, Affiliated to JNTUH Hyderabad
Ibrahimpatnam-501 510, Hyderabad, Telangana.

Certificate

This is to certify that the project work entitled "*A Deep Learning Facial Expression Recognition Based Scoring System for Restaurants*" is the bonafide work done.

By

| | |
|------------|------------|
| S.Rachana | 17E11A0510 |
| G.Manogna | 17E11A0514 |
| J. Ashwini | 17E11A0507 |
| P.Sahithi | 17E11A0512 |

the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021

Guide:

[Signature]
T.P Ann Thabitha
Assistant Professor
Dept of CSE,
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Head of the Department:

[Signature]
Mr. Suyash Agrawal
Assistant Professor
Dept of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam-501510, Hyderabad

Viva-Voce held on.....

27-06-2021

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Ibrahimpatnam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "Detection and Classification of Fruit Diseases using image processing & cloud computing" is the bonafide work done

By

| | |
|----------------|------------|
| DESA PRUDHVI | 17E11A0566 |
| MOHD JABER | 17E11A0584 |
| V.LOKESH REDDY | 17E11A0569 |
| M.ARAVIND | 18E15A0501 |
| N.GOVIND | 16E11A0585 |

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfilment of the requirements for the award of B. Tech degree in Computer Science and Engineering during 20162020.

Dr. Suriya Begum
Guide: *[Signature]*
12/07/2021

Dr.Suriya Begum
Associate Professor
Dept of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Head of the Department: *[Signature]*

Mr.Suyash Agarwal
Assistant Professor
Dept of CSE
Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Viva-Voce held on..... *29-06-2021*

[Signature]
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Ibrahimpattanam - 501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "EMOTION BASED MUSIC RECOMMENDATION SYSTEM" is the bonafide work done by

CHUKKA SHIVAKESH

17E11A0573

R.RAGURAMA RAHUL

17E11A0577

POREDDY SAIKUMAR REDDY

17E11A0570

BYROJU NAVEEN

17E11A0574

*in the Department of Computer Science and Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattanam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B.Tech** degree in **Computer Science and Engineering** during 2017-2021.*

Guide:


SURENDRA KALAGARA

Assistant Professor

Dept of CSE,

Bharat Institute of Engineering and Technology,

Ibrahimpattanam - 501 510, Hyderabad.

Head of the Department:


Mr. SUYASH AGARWAL

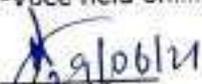
Associate professor,

Dept of CSE,

Bharat Institute of Engineering and Technology,

Ibrahimpattanam - 501 510, Hyderabad.

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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Ibrahimpattanam-501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "Blockchain for Electronic Health Records" is the bonafide work done

By

| | |
|---------------------------|---------------------|
| P.RAJ KIRAN | (17E11A0564) |
| T.SHYAM SUNDER | (17E11A0565) |
| CH.HAVEESH VARDHAN | (17E11A0571) |
| A.NARENDRA | (14E11A0579) |
| P.SRINU | (17E11A0579) |

in the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2017-2021.

Guide:

Mr.AMIT SHARMA

Assistant Professor

Dept of CSE,

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Head of the Department

Mr.SUYASH AGRAWAL

Assistant Professor

Dept of CSE

Bharat Institute of Engineering and Technology,
Ibrahimpattanam - 501 510, Hyderabad.

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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Ibrahimpattanam - 501 510, Hyderabad

Certificate

This is to certify that the project work entitled "**Identifying Fake Profiles Using Artificial Neural Network (ANN)**" is the bonafide work done

GUNDA SRUJAN
BALGURI KONDAL REDDY
KUNCHA PAVANKALYAN
BATHULA SANJAY REDDY
MOHAMMED ZUNNURAIN

(17E11A0527)
(17E11A0516)
(17E11A0543)
(17E11A0517)
(17E11A0539)

In the Department of Computer Science and Engineering, **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattanam is submitted to **Jawaharlal Nehru Technological University, Hyderabad** in partial fulfillment of the requirements for the award of **B. Tech degree in Computer Science and Engineering** during 2017-2021.

Guide: 

Ms. Arati S. B

ASSISTANT PROFESSOR

Dept of CSE,

Bharat Institute of Engineering and Technology,

Ibrahimpattanam - 501 510, Hyderabad.

Head of the Department: 

Mr. Suyash Agarwal

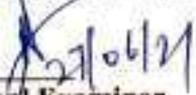
ASSISTANT PROFESSOR

Dept of CSE, IT.

Bharat Institute of Engineering and Technology,

Ibrahimpattanam - 501 510, Hyderabad.

Viva-Voce held on..... 27-06-2021


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Ibrahimpattam - 501 510, Hyderabad, Telangana

Certificate

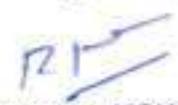
This is to certify that the Project Work entitled "Quantifying covid-19 content in the online opinion health war using machine learning" is the bonafide work done

By

**G.NANDINI
N.AKSHARA
M.PRANAVI
K.LIKHITHA**

**(17E11A0509)
(17E11A0502)
(17E11A0504)
(17E11A0505)**

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Guide: 
Dr. R. MADANA MOHANA

Professor
Dept of CSE,
Bharat Institute of Engineering and Technology
Ibrahimpattam - 501510, Hyderabad

Head of the Department: 

Mr. Suyash Agrawal
Assistant Professor
Dept of CSE
Bharat Institute of Engineering and Technology
Ibrahimpattam - 501 510 Hyderabad.

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Ibrahimpattam - 501510, Hyderabad, Telangana

Certificate

*This is to certify that the project work entitled "CSUML" is the
bonafide work done*

By

| | |
|--------------------------|------------|
| CHANDU RAVI TEJA | 17E11A05B2 |
| PILLI SANDEEP | 17E11A05C0 |
| GIDDIE NEIL SPRUNTHI | 17E11A05A8 |
| GAJAGOUNI AKASH GOUD | 17E11A05B7 |
| GURUJALA SAI SHARAN GOUD | 17E11A05C2 |

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OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to
Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of
the requirements for the award of B.Tech degree in Computer Science and
Engineering during 2017- 2021.*

Guide:

Ms. ARATI S. B.

Assistant Professor
Dept of CSE,
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Head of the Department:

Mr. SUYASH AGRAWAL

Assistant Professor
Dept of CSE,
Bharat Institute of Engineering and
Ibrahimpattam - 501510, Hyderabad.

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Ibrahimpattam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the industry oriented major project entitled " Big Mart Sales Prediction Using Machine Learning " is the bonafide workdone

By

ADITYA T
RAKESH REDDY N
ACHYUTH REDDY M
HRUSHIKESH K

17E11A0588
17E11A0587
17E11A0585
17E11A0567

In the Department of Computer Science and Engineering, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Computer Science and Engineering during 2020-2021.

Guide:

Mrs. Mubeena Begum

Assistant Professor
Dept of Computer Science and Engineering,
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Ibrahimpattam - 501 510, Hyderabad.

Head of the Department:

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Assistant Professor
Dept of Computer Science and Engineering,
Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

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Approved by AICTE, Affiliated to JNTUH Hyderabad

Ibrahimpatnam - 501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "Digital Certificate Management System" is the bonafide work done

By

V. Sai Srujan
S. Madhav Reddy
N. Sai Teja
G. Shashank

17E11A 1239
17E11A 1232
17E11A 1236
16E11A 1237

In the Department of Information Technology, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Information Technology during 2017-2021.

Guide:

Mr. K. Bhaskar

Assistant Professor
Dept of IT,
Bharat Institute of Engineering and Technology,
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Head of the Department:

Mr. Suyash Agrawal

Assistant Professor
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Bharat Institute of Engineering and Technology,
Ibrahimpatnam - 501510, Hyderabad

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Ibrahimpattam - 501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "EMPLOYEE HIRING SYSTEM"
is the bonafide work done

By

| Candidate Name(s) | Roll Number |
|----------------------------|--------------|
| YANUGULA MANASA | (17E11A1209) |
| ROYYALA MOUNIKA | (17E11A1213) |
| KALLEM AISHWARYA | (17E11A1214) |
| CHIPPA SINDHU | (17E11A1215) |
| MADINI AKHILA REDDY | (17E11A1219) |

in the Department of Information Technology, BHARAT INSTITUTE OF
ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal
Nehru Technological University, Hyderabad in partial fulfillment of the
requirements for the award of B.Tech degree in Information Technology during
2017-2021.

Guide: *Mangesh*

Mr. MANGESH MATKE

Assistant Professor
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Ibrahimpattam - 501 510, Hyderabad.

Head of the Department: *Suyash*

Mr. SUYASH AGRAWAL

Assistant Professor
Dept of CSE
Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voiceheld on *29/6/2021*

[Signature]
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Ibrahimpattanam - 501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitle "A SECURED BANKING APPLICATION THROUGH CryptDB" is the bonafide work done

| | |
|--------------------------|-------------------|
| ADDAGATI | 17E11A1202 |
| DODDI MITHUN | 17E11A1205 |
| PADMALAYA ANEESHA | 17E11A1211 |
| KOKKULA TULASI | 17E11A1212 |
| SHEELAM VAISHNAVI | 17E11A1218 |

In the Department of Information Technology, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattanam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Information Technology during 2020-2021.

Guide: 
Mrs. Kiranmai
Assistant Professor
Dept of CSE,
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Ibrahimpattanam - 501 510, Hyderabad.


Head of the Department
Mr. Suyash Agrawal
Assistant Professor
Dept of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpattanam - 501 510, Hyderabad.

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Ibrahimpattam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled "IMAGE APPLICATIONS USING OPENCV AND PYTHON" is the bonafide work done

By

| Candidate Name(s) | Roll Number |
|-----------------------|-------------|
| V KRISHNA VISWANATHAM | 17E11A1228 |
| GUTHA MAHENDER REDDY | 17E11A1231 |
| KUKKALA ANURAG REDDY | 17E11A1224 |
| ADEPU VINAY KUMAR | 17E11A1234 |
| GUTHA VENKATESHWARLU | 17E11A1230 |

in the Department of Information Technology, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Information Technology during 2017-2021.

Guide: 
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Assistant Professor
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Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.


Head of the Department:
Mr. SUYASH AGRAWAL
Assistant Professor
Dept of CSE
Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voiceheld on 29/6/2021


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External Examiner



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Affiliated to JNTUH Hyderabad, Ibrahimpatnam - 501 510, Hyderabad, Telangana.

Certificate

This is to certify that the project work entitled "VIRTUAL TOUR GUIDE" is a bonafide work done

By

| | |
|-----------------|--------------|
| SHRADDHA JOSHI | (17E11A1204) |
| KAKANI SRILEKHA | (17E11A1203) |
| KONDA HARIPRIYA | (17E11A1210) |
| VADLA SIRISHA | (17E11A1208) |

in the Department of Information Technology, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpatnam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Department of Information Technology during 2017-2021.

Guide:

Mr. Kushal Gupta

Assistant Professor,
Dept of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Head of the Department:

Mr. Suyash Agrawal

Assistant professor,
Dept of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpatnam – 501 510, Hyderabad.

Viva-Voce held on.....

29/06/2021

Internal Examiner

External Examiner



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TECHNOLOGY**

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Ibrahimpattam -501 510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitle "Effective bus pass generation and bus tracking" is the bonafide work done

| | | |
|-------------------------|-----------|-------------------|
| | By | |
| R. Sainath Reddy | | 17E11A1220 |
| K. Lokesh Reddy | | 17E11A1222 |
| D. Sumanth Reddy | | 17E11A1225 |
| E. Uday Kiran | | 16E11A1213 |

in the Department of Information Technology, BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, Ibrahimpattam is submitted to Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirements for the award of B.Tech degree in Information Technology during 2017-2021.

Guide: 
Ms. Jincy Denny
Assistant Professor
Dept of CSE,
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Ibrahimpattam - 501 510, Hyderabad.

Head of the Department: 
Mr. Suyash Agrawal
Assistant Professor
Dept of CSE,
Bharat Institute of Engineering and Technology,
Ibrahimpattam - 501 510, Hyderabad.

Viva-Voceheld on 19/6/2021


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External Examiner



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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Approved by AICTE, Affiliated to JNTUH Hyderabad

Ibrahimpattanam - 501510, Hyderabad, Telangana

Certificate

This is to certify that the project work entitled
"DIGITAL DATA SECURITY THROUGH WATERMARK"
Is the bonafide work done

BY

| | |
|---------------------------|--------------|
| MALLELA RAHUL KAUSHIK | (17E11A1241) |
| POOLA POORNACHANDER | (17E11A1235) |
| KANDIBANDA MANIDEEP KUMAR | (17E11A1227) |
| SAMINENTI RAMESH | (17E11A1229) |

in the Department of 'Information Technology', **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Ibrahimpattanam is submitted to *Jawaharlal Nehru Technological University, Hyderabad* in partial fulfillment of the requirements for the award of **B. Tech** degree in **Information Technology** during 2017-21

Guide:

Mrs. Govravaram Rashmi Asst. professor
Dept of IT
Bharat Institute of Engineering and Technology,
Ibrahimpattanam - 501510, Hyderabad

Head of the Department

Mr. Suyash Agarwal, Asst. Professor
Dept of IT
Bharat Institute of Engineering and Technology,
Ibrahimpattanam - 501510, Hyderabad

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Date: 16th October, 2020

Dear Amaresh Prasad Sahu

Congratulations for being selected as the Student Associate with InCampus.

We are glad to welcome you in our Student Associate Program. You emerged as the best candidate among many applicants interviewed from your college. Your skills and experience matched what we expect for this position.

You will be joining Incampus as a Student associate from 17th October, 2020 and will be working with us for 3 months. As we had discussed earlier in this position you have to promote Incampus in your college.

Roles and Responsibilities:

1. Creating buzz in your college about InCampus and spreading awareness about our cause to clubs and societies to join our platforms.
2. Regularly updating your college regarding the events, workshops and speaker sessions and drive participation.
3. Spearheading the promotional activities of InCampus, both online and offline.
4. Getting classmates from respective colleges or nearby colleges to register on our APP.

Perks and Benefits:

1. Certificates of participation to all those who perform the tasks diligently
2. Letter of Recommendation
3. Flexible work hours
4. Discount coupons for e-courses and other commodities
5. Exclusive Campus Ambassador merchandises for organizing offline events within your campus.
6. Guidance by top IIM experts throughout your journey with InCampus
7. Many other exciting goodies and prizes.

We are committed to seeing you rise to the best system. Be at peace to interact with your fellows and learn from your seniors. Your success will rely on your dedication to following company policies & instructions from your mentor.

Once again, warm welcome to InCampus. We anticipate a rewarding future with you.



Ms.Jhanvi Khaneja
Chief HR Officer
InCampus

TO WHOM IT MAY CONCERN

Aug 10, 2021

This is certified that **Mr. Sai Kamal** has done his internship in **HFIL Technologies Private Limited** from 30th Nov, 2020 to 13th July, 2021.

He has worked on a project titled Smart Energy Meter. As part of this project, he has worked on full stack development.

During the internship he demonstrated good coding skills with a self-motivated attitude to learn new things. His performance exceeded expectations and was able to complete the project successfully on time.

His contributions to the organization and its success will always be appreciated. We at company wish him all the best in his future endeavours.

Yours Sincerely,



For HFIL Technologies Pvt. Ltd.
Dinesh Batra
Director

(Director),
HFIL Technologies Pvt Ltd



HFIL Technologies Pvt Ltd
IIT Mandi Catalyst
North Campus, IIT Mandi,
Himachal Pradesh, 175005

Dear Sai Kamal,

27th Nov, 2020.

I am delighted & excited to welcome you to high five innovation labs (HFIL TECHNOLOGIES PRIVATE LIMITED) as a Full Stack Developer Intern. At HFIL, we believe that our team is our biggest strength and we take pride in hiring ONLY the best and the brightest. We are confident that you would play a significant role in the overall success of the venture and wish you the most enjoyable, learning packed and truly meaningful internship experience with HFIL.

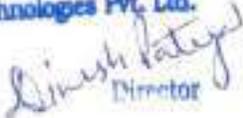
Your appointment will be governed by the terms and conditions presented in the Annexure A.

We look forward to you joining us. Please do not hesitate to call us for any information you may need. Also, please sign the duplicate of this offer as your acceptance and forward the same to us.

Congratulations!

Yours Sincerely,

With Warm Regards,
For HFIL Technologies Pvt. Ltd.,

For HFIL Technologies Pvt. Ltd.

Director

Dinesh Patiyal
Chief Executive Officer.
(Director)

Annexure A

You shall be governed by the following terms and condition of service during your internship with HFIL, and those may be amended from time to time.

1. You are being hired as a Full Stack Developer Intern and Dinesh Patiyal would be your Reporting Manager during the internship. As an Intern you would be responsible for:
 - You will be responsible for web application development both front and back end.
 - Build robust algorithms
 - Creating new API's
 - Integration of payment gateway
 - Divide API's as per priority and deploy it as multiple applications
 - API Version Management
 - Create and manage database
 - Security settings and hack prevents
 - Reporting—generating analytics and statistics reports.
 - Backup and restore technologies for API's and DB
2. Your date of joining is 30th Nov, 2020 and the duration of the internship would be 6 months which can be extended. During this time you are expected to devote your time and efforts to the work at HFIL. You are also required to let your mentor know about forthcoming events (if there are any) in advance so that your work can be planned accordingly.
3. You will be working from the office/home for the duration of the internship. There will be catch ups scheduled with your manager to discuss work progress and overall internship experience at regular intervals.
4. All the work that you will produce at or in relation to HFIL will be the intellectual property of HFIL. You are not allowed to store, copy, sell, share, and distribute it to a third party under any circumstances. Similarly you are expected to refrain from talking about your work in public domains (both online such as blogging, social networking site and offline among your friends, college etc.) without prior discussion and approval with your mentor.
5. We take data privacy and security very seriously and to maintain confidentiality of any students, customers, clients, and companies' data and contact details that you may get access to during your internship will be your responsibility. HFIL operates on zero tolerance principle with regard to any breach of data security guidelines. At the completion of the internship you are expected to hand over all HFIL work/data stored on your Personal Computer to your mentor and delete the same from your machine.
6. During the appointment period you shall not engage yourselves directly or indirectly or in any capacity in any other organization. In the event of breach of this condition, this appointment is liable to be terminated forthwith by the company.
7. Under normal circumstances either the company or you may terminate this association by providing a notice of 15 days without assigning any reason. However, the company may terminate this agreement forthwith under situations of in-disciplinary behaviours.

8. You are expected to conduct yourself with utmost professionalism in dealing with your mentor, team members, colleagues, clients and customers and treat everyone with due respect.
9. HFIL is a start-up and we love people who like to go beyond the normal call of the duty and can think out of the box. Surprise us with your passion, intelligence, creativity and hard work – and expect appreciation & rewards to follow.
10. Expect constant and continuous objective feedback from your mentor and other team members and we encourage you to ask for and provide feedback at every possible opportunity. It's your right to receive and give feedback – this is the ONLY way we all can continuously push ourselves to do better.
11. Have fun at what you do and do the right thing – both the principles are core of what HFIL stands for and we expect you to imbibe them in your day to day actions and continuously challenge us if we are falling short of expectations on either of them.
12. You will be provided an internship certificate after completion of the internship.



HFIL Technologies Pvt Ltd
IIT Mandi Catalyst
North Campus, IIT Mandi,
Himachal Pradesh, 175005

DECLARATION:

I accept the appointment on the terms and conditions contained in this letter and the Annexure(s) if any, and other conditions and service rules as applicable to the employees of the Company from time to time and I shall be joining the services of the Company on 30th Nov, 2020.

Place:

Accepted

Date:

(Sai Kamal)



Hyderabad Institute of Electrical Engineers

An ISO 9001: Certified Organisation 2015

REGD. NO. 00YY33887503



This is to Certify that Mr/Ms Arthem Srilaya
son/daughter of Arthem Chandraiah
has successfully completed the “ELECTRICAL SYSTEM DESIGN”
course from 24th March 2021 to 25th June 2021.

During this period he/she attended the course regularly and
keenly participated in course activities.

Date : 12th July '21

Place: Hyderabad



Authorised Signatory



SOUTH CENTRAL RAILWAY



Shri.V. NARASIMHA REDDY (RQLL No.19E15A0215), student of Bharat Institute of Engineering & Technology, Mangalpally (V), Ibrahimpatnam Mandal, RR Dist-501510 in III Year B.Tech.(E.E.E.) has completed Internship on " Catenary Systems, Traction Supply, Distribution and SCADA Systems" of Railway Electric Traction from 31.03.2021 to 15.04.2021 at Traction Distribution branch of Secunderabad Division of South Central Railway.

Place: Secunderabad

Date: 15.04.2021


15.4.2021
(A. SURESH)

Sr. Divisional Electrical Engineer
(Traction Distribution)
Secunderabad.

वरिष्ठ मंडल विद्युत इंजीनियर (क.वि)
दक्षिण मध्य रेलवे, सिकंदराबाद.
Sr. Divisional Electrical Engineer (TRD)
S.C. Railway, Secunderabad.



INTERNSHIP CERTIFICATION

We are glad to inform that **Ms. NAINI ROOPA** from **BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**, has successfully completed her internship on **SUBSTATION DESIGN** for 15 days i.e., (December 16th 2019 to December 31th 2019) at **Hyderabad Institute of Electrical Engineers**.

During her internship, she was trained on selection of Substation equipment's and also visited substation. We found her extremely inquisitive and hard working.

HIEE wishes her All the Best in her future endeavors.



Authorized Signatory

Hyderabad Institute of Electrical Engineers



राष्ट्रीय लघु उद्योग निगम—तकनीकी सेवा केन्द्र
THE NATIONAL SMALL INDUSTRIES CORPORATION LTD
TECHNICAL SERVICES CENTRE

(भारत सरकार का उद्यम / A Government of India Enterprises)
ई.सी.आई.एल. एन.एस. रोड, कुशाईगुडा, हैदराबाद - 500062, तेलंगाना, भारत
E.C.I.L. X Road, Kuthaiguda, Hyderabad - 500062, Telangana, India.



क्रमांक / S.No. 180540

दिनांक / Date: 09/07/2021

E - CERTIFICATE

This is to certify that Mr. / Ms. C Vikas Chary
son/daughter of Mr. C Chandra Shekar pursuing B.Tech in EEE from
(College Name) Bharat Institute of Engineering and Technology
Roll No. 19E15A0208-A has successfully completed the Internship Program
entitled/in the area of EV Technology

_____ under
our guidance. It is a bonafide work carried out by her/him from 14/06/2021 to 28/06/2021

He/She has completed the assigned module as per the requirements within the time frame
During the above period, the trainee's conduct was found Good


Project Coordinator




Centre Head



राष्ट्रीय लघु उद्योग निगम—तकनीकी सेवा केन्द्र
THE NATIONAL SMALL INDUSTRIES CORPORATION LTD
TECHNICAL SERVICES CENTRE

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E.C.I.L X Road, Kuthaiguda, Hyderabad - 500062, Telangana, India.



क्रमांक / S.No. 180538

दिनांक / Date: 09/07/2021

E - CERTIFICATE

This is to certify that Mr. / Ms. Adula Vishnuvardhan Reddy
son/daughter of Mr. Adula Raji Reddy pursuing B.Tech in EEE from
(College Name) BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
Roll No. 18E11A0201 has successfully completed the Internship Program
entitled/in the area of EV Technology

_____ under
our guidance. It is a bonafide work carried out by her/him from 14/06/2021 to 28/06/2021

He/She has completed the assigned module as per the requirements within the time frame
During the above period, the trainee's conduct was found Good


Project Coordinator




Centre Head



राष्ट्रीय लघु उद्योग निगम—तकनीकी सेवा केन्द्र
THE NATIONAL SMALL INDUSTRIES CORPORATION LTD
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E.C.I.L. X Road, Kuthaiguda, Hyderabad - 500062, Telangana, India.



क्रमांक / S.No. 180537

दिनांक / Date: 09/07/2021

E - CERTIFICATE

This is to certify that Mr. / Ms. Singireddy Madhusudhan Reddy
son/daughter of Mr. Singireddy Kista Reddy pursuing B.Tech in EEE from
(College Name) BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
Roll No. 19E15A0201 has successfully completed the Internship Program
entitled/in the area of EV Technology

_____ under
our guidance. It is a bonafide work carried out by her/him from 14/06/2021 to 28/06/2021

He/She has completed the assigned module as per the requirements within the time frame
During the above period, the trainee's conduct was found Good


Project Coordinator




Centre Head



राष्ट्रीय लघु उद्योग निगम—तकनीकी सेवा केन्द्र
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E.C.I.L. X Road, Kuthaiguda, Hyderabad - 500062, Telangana, India.



क्रमांक / S.No. 180539

दिनांक / Date: 09/07/2021

E - CERTIFICATE

This is to certify that Mr. / Ms. Endoori Sriram
son/daughter of Mr. Endoori Rajender pursuing BE in EEE from
(College Name) Bharat Institute of Engineering and Technology
Roll No. 19E15A0218 has successfully completed the Internship Program
entitled/in the area of EV Technology

_____ under
our guidance. It is a bonafide work carried out by her/him from 14/06/2021 to 28/06/2021

He/She has completed the assigned module as per the requirements within the time frame
During the above period, the trainee's conduct was found Good


Project Coordinator




Centre Head



SOUTH CENTRAL RAILWAY



Shri.P. SANDEEP (ROLL No.19E15A0204), student of Bharat Institute of Engineering & Technology, Mangalpally (V), Ibrahimpatnam Mandal, RR Dist-501510 in III Year B.Tech.(E.E.E.) has completed Internship on "Catenary Systems, Traction Supply, Distribution and SCADA Systems" of Railway Electric Traction from 31.03.2021 to 15.04.2021 at Traction Distribution branch of Secunderabad Division of South Central Railway.

Place: Secunderabad

Date: 15.04.2021

(A.SURESH)

Sr. Divisional Electrical Engineer
(Traction Distribution)
Secunderabad.

वरिष्ठ मंडल विद्युत इंजीनियर (क.वि.)
उत्तम मंडल जे.ए.वे., सिकंदराबाद.
Sr. Divisional Electrical Engineer (TRD)
Secunderabad.



SOUTH CENTRAL RAILWAY



CERTIFICATE

Shri.R. VENUGOPAL (ROLL No.19E15A0203), student of Bharat Institute of Engineering & Technology, Mangalpally (V), Ibrahimpatnam Mandal, RR Dist-501510 in III Year B.Tech.(E.E.E.) has completed Internship on "Catenary Systems, Traction Supply, Distribution and SCADA Systems" of Railway Electric Traction from 31.03.2021 to 15.04.2021 at Traction Distribution branch of Secunderabad Division of South Central Railway.

Place: Secunderabad

Date: 15.04.2021

(A. SURESH)

Sr. Divisional Electrical Engineer
(Traction Distribution)
Secunderabad.

वरिष्ठ मंडल विद्युत इंजीनियर (ता.वि)

दक्षिण मध्य रेलवे, सिकन्दराबाद.

Sr. Divisional Electrical Engineer (TRD)

S.C. Railway, Secunderabad.



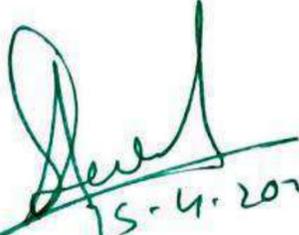
SOUTH CENTRAL RAILWAY



Shri.R. PRAVEEN NAIK (ROLL No.19E15A0217), student of Bharat Institute of Engineering & Technology, Mangalpally (V), Ibrahimpatnam Mandal, RR Dist-501510 in III Year B.Tech.(E.E.E.) has completed Internship on " Catenary Systems, Traction Supply, Distribution and SCADA Systems" of Railway Electric Traction from 31.03.2021 to 15.04.2021 at Traction Distribution branch of Secunderabad Division of South Central Railway.

Place: Secunderabad

Date: 15.04.2021


15.4.2021
(A. SURESH)

Sr. Divisional Electrical Engineer
(Traction Distribution)
Secunderabad.

वरिष्ठ मंडल विद्युत इंजीनियर (क.वि)
दक्षिण मध्य रेलवे, सिकन्दराबाद.
Sr. Divisional Electrical Engineer (TRD)
S.C. Railway, Secunderabad.