

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,
88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027

2021-2022



CERTIFICATE

This is to certify that the Project report entitled “**ZETA CONVERTER BASED SIMULATION MODEL FOR BLDC MOTOR FED WATER PUMPING SYSTEM**”, being submitted by **Ms. D.SWATHI (19NT5A0213)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.

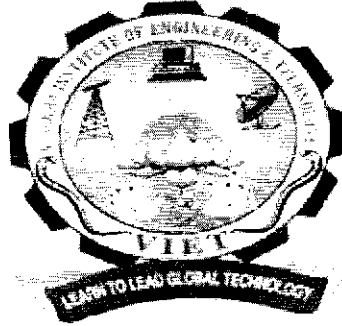
Signature of the Guide
K S B VARAPRASAD M.Tech
(Assistant Professor)

Signature of the HOD
K S B VARAPRASAD M.Tech
(Assistant Professor)

External Examiner

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,
88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**

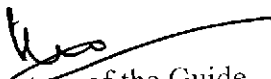
2021-2022

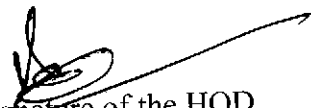


CERTIFICATE

This is to certify that the Project report entitled “**ZETA CONVERTER BASED SIMULATION MODEL FOR BLDC MOTOR FED WATER PUMPING SYSTEM**”, being submitted by **Mr.A.SRINIVAS (19NT5A0201)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.


Signature of the Guide
K S B VARAPRASAD M.Tech
(Assistant Professor)


Signature of the HOD
K S B VARAPRASAD M.Tech
(Assistant Professor)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited to NAAC)

57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027



CERTIFICATE

This is to certify that the project report entitled '**TRANSIENT ANALYSIS OF RADIAL ENGINE**' is being submitted by

SOORA SAI PAVAN

20NT1D0409

In partial fulfillment for the award of the Degree of Master of Technology in CAD/CAM submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.



G. SUNIL
Project guide



Mrs. G. SIVA KARUNA
Head of the Department



External Examiner

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,

88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027

2021-2022



CERTIFICATE

This is to certify that the Project report entitled **“SOLAR PV BASED MULTI LEVEL INVERTER FOR BLDC MOTOR DRIVE”** is being submitted by **G.SAILAKSHMI (19NT5A0218)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.

Signature of the Guide
T Santhosh M.Tech
(Assistant Professor)

Signature of the HOD
K S B VARAPRASAD M.Tech
(Assistant Professor)

External Examiner

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,
88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027

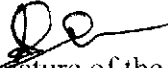
2021-2022

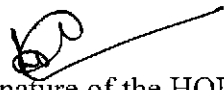


CERTIFICATE

This is to certify that the Project report entitled “**SOLAR PV BASED MULTI LEVEL INVERTER FOR BLDC MOTOR DRIVE**” is being submitted by **P.RANJITH (19NT5A0248)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.


Signature of the Guide
T Santhosh M.Tech
(Assistant Professor)


Signature of the HOD
K S B VARAPRASAD M.Tech
(Assistant Professor)

External Examiner

CERTIFICATE

This is to certify that the Project entitled “**OPTIMAL DESIGN AND PERFORMANCE ANALYSIS OF GaAs/InGaAs NANOWIRE JUNCTIONLESS MOSFET**” that is being submitted by **Kalla Sandhya (Regd No: 20NT1D6802)**, in partial fulfillment for the award of **M.Tech** degree in **Electronics and Communication Engineering** with specialization **VLSI and Embedded Systems** during **2020-2022**, in **Visakha Institute of Engineering and Technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.




Project Guide

Mr. Bighneswar Panda M.Tech (Ph.D)

Associate Professor

Dept.of ECE



Head of the Department

Mr. B Jeevan Rao, M.Tech (Ph.D)

Associate Professor

Dept.of ECE



External Examiner

VISAKHA TECHNICAL CAMPUS

(Affiliated to JNTU KAKINADA and Approved by AICTE, (NEWDELHI))

57th Division, Narava, Visakhapatnam - 530027.



CERTIFICATE

This is to certify that this project report is entitled **NUMERICAL INVESTIGATION OF HEAT TRASFER ENHANCEMENT ON HYBRID FLUIDS** was carried out by **SANAPALA GANGADHAR (176G1D2110)** in partial fulfilment of the requirements for the award of the Degree of **MASTER OF TECHNOLOGY IN THERMAL ENGINEERING** in **VISAKHA TECHNICAL CAMPUS** affiliated to Jawaharlal Nehru Technological University, Kakinada. This project was done during the Academic year 2017- 2019.

**PROJECT GUIDE,
Mr. K. RAVINDRA M.E**

Assistant Professor

**HEAD OF THE DEPARTMENT,
Mr. K. RAVINDRA M.E**

EXTERNAL EXAMINER

VISAKHA TECHNICAL CAMPUS

(Affiliated to JNTU KAKINADA and Approved by AICTE, (NEWDELHI)) 57th
Division, Narava, Visakhapatnam - 530027.



CERTIFICATE

This is to certify that this project report is entitled **MODELING RADIATION AND NATURAL CONVECTION HEAT TRANSFER IN A SQUARE ENCLOSURE USING SURFACE TO SURFACE RADIATION APPROACH** was carried out by **KARRI MAHESWARI (176G1D2104)** in partial fulfillment of the requirements for the award of the Degree of **MASTER OF TECHNOLOGY IN THERMAL ENGINEERING** in **VISAKHA TECHNICAL CAMPUS** affiliated to Jawaharlal Nehru Technological University, Kakinada. This project was done during the Academic year 2017-2020.

PROJECT GUIDE,

Mr. G. Sunil , M.Tech

Asst Professor

HEAD OF THE DEPARTMENT,

Mr. K. RAVINDRA(M.E)

EXTERNAL EXAMINER

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited to NAAC)

57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027



CERTIFICATE

This is to certify that the project report entitled '**STRUCTURAL AND THERMAL ANALYSIS OF DISC BREAK ROTAR**' is being submitted by

MOHMMED KHAJA

19525A0341

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.


Project guide


Head of the Department

External Examiner

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited to NAAC)

57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027



CERTIFICATE

This is to certify that the project report entitled '**STRUCTURAL AND THERMAL ANALYSIS OF DISC BREAK ROTAR**' is being submitted by

BUDIDA.S.R.C.MURTHY KUMAR

19525A0310

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.


Project guide


Head of the Department

External Examiner

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited to NAAC)

57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027



CERTIFICATE

This is to certify that the project report entitled '**DESIGN AND FABRICATION OF SOLAR POWERED LAWNMOVERS**' is being submitted by

MYLAPILLI RAJU

18NT1A0315

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

Project guide

Head of the Department

External Examiner

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited to NAAC)

57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027



CERTIFICATE

This is to certify that the project report entitled '**DESIGN AND FABRICATION OF SOLAR POWERED LAWNMOVERS**' is being submitted by

THATIPUDI CHANDRA SEKHAR

19NT5A0383

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

A handwritten signature in blue ink, appearing to be 'D. S. S.', is written above the text 'Project guide'.

Project guide

A handwritten signature in blue ink, appearing to be 'G. S. S.', is written above the text 'Head of the Department'.

Head of the Department

External Examiner

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

57th Division, Narava, Visakhapatnam - 530027.



CERTIFICATE


This is to certify that is project report is entitled “DISMANTLING OF FOUR STROKE PETROL ENGINE USING SOP AND 5'S TECNNIQUES” is being submitted by

D.G.VAMSI KRISHNA

(19NT5A2404)

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

The results embodied in this project report have not been submitted to any other university or institute for the award of the degree.


Signature of the Guide


Signature of the HoD

External Examiner

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

57th Division, Narava, Visakhapatnam - 530027.



CERTIFICATE

This is to certify that is project report is entitled “**INVESTIGATION OF MECHANICAL PROPERTIES ON POLYMER MATRIX COMPOSITES USING IN AUTOMOTIVE INDUSTRY**” is being submitted by

Y. HARI SRINIVASA RAO

19NT5A2403

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

The results embodied in this project report have not been submitted to any other university or institute for the award of the degree.

K. Jagadeesh

Signature of the Guide

[Signature]

Signature of the HoD

External Examiner

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

57th Division, Narava, Visakhapatnam - 530027.



CERTIFICATE

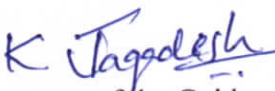
This is to certify that is project report is entitled “**REDUCING THE SOP PERIOD GEARBOX AND STEERING SYSTEM DIS-ASSEMBLY**” is being submitted by

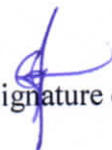
R. ESWAR

18NT1A2402

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

The results embodied in this project report have not been submitted to any other university or institute for the award of the degree.


Signature of the Guide


Signature of the HoD

External Examiner

VISAKHA TECHNICAL CAMPUS

(Approved by AICTE, New Delhi & Affiliated to JNTU

KAKINADA) 57TH Division, Narava, Visakhapatnam



CERTIFICATE

This is certify that the project report entitled "**BEHAVIOUR OF CONCRETE BY PARTIAL REPLACEMENT OF COARSE AGGREGATE WITH COCOUNT SHELLS**". submitted by **J.TRINADH (196G5A0122)**. In partial fulfillment of the requirements for the award of degree of "**BACHELOR OF TECHNOLOGY** in "**CIVIL ENGINEERING**" from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by them under our guidance and supervision

PROJECT GUIDE

Mr. S. AVINASH, M.Tech

Assistant professor

Department of civil engineering

Visakha technical campus

H.O.D

V. BHARGAVI, M.Tech,(Ph.d)

Head of the department

Department of civil engineering

Visakha technical campus

EXTERNAL EXAMINER

VISAKHA TECHNICAL CAMPUS

(Approved by AICTE, New Delhi & Affiliated to JNTU

KAKINADA) 57TH Division, Narava, Visakhapatnam



CERTIFICATE

This is certify that the project report entitled "**BEHAVIOUR OF CONCRETE BY PARTIAL REPLACEMENT OF COARSE AGGREGATE WITH COCOUNT SHELLS**". submitted by **E.VENKAT SAI (196G5A0117)**. In partial fulfillment of the requirements for the award of degree of "**BACHELOR OF TECHNOLOGY** in "**CIVIL ENGINEERING**" from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by them under our guidance and supervision

PROJECT GUIDE

Mr. S. AVINASH, M.Tech

Assistant professor

Department of civil engineering

Visakha technical campus

H.O.D

V. BHARGAVI, M.Tech,(Ph.d)

Head of the department

Department of civil engineering

Visakha technical campus

EXTERNAL EXAMINER

VISAKHA TECHNICAL CAMPUS

(Approved by AICTE, New Delhi & Affiliated to JNTU

KAKINADA) 57TH Division, Narava, Visakhapatnam



CERTIFICATE

This is certify that the project report entitled "STUDY ON STRENGTH BY CHARACTERISTICS BY USING FULLY RECYCLED COARSE AGGREGATE CONCRETE AT VARIOUS ATMOSPHERIC CONDITIONS". submitted by P.RAMYA SREE,(196G5A0147). In partial fulfillment of the requirements for the award of degree of "BACHELOR OF TECHNOLOGY in "CIVIL ENGINEERING" from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by them under our guidance and supervision


PROJECT GUIDE

Mr. K.JAGAN, M.Tech

Assistant professor

Department of civil engineering

Visakha technical campus


H.O.D

V. BHARGAVI, M.Tech,(Ph.d)

Head of the department

Department of civil engineering

Visakha technical campus

EXTERNAL EXAMINER

VISAKHA TECHNICAL CAMPUS

(Approved by AICTE, New Delhi & Affiliated to JNTU

KAKINADA) 57th Division, Narava, Visakhapatnam



CERTIFICATE

This is certify that the project report entitled "STUDY ON STRENGTH BY CHARACTERSTICS BY USIBG FULLY RECYCLED COARSE AGGREGATE CONCRETE AT VARIOUS ATMOSPHERIC CONDITIONS". submitted by M. SUSHMA (196G5A0140). In partial fulfillment of the requirements for the award of degree of "BACHELOR OF TECHNOLOGY in "CIVIL ENGINEERING" from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by them under our guidance and supervision


PROJECT GUIDE

Mr. K.JAGAN, M.Tech

Assistant professor

Department of civil engineering

Visakha technical campus


H.O.D

V. BHARGAVI, M.Tech,(Ph.d)

Head of the department

Department of civil engineering

Visakha technical campus

EXTERNAL EXAMINER

VISAKHA TECHNICAL CAMPUS

(Approved by AICTE, New Delhi & Affiliated to JNTU

KAKINADA) 57TH Division, Narava, Visakhapatnam



CERTIFICATE

This is certify that the project report entitled “**ANALYSIS AND DESIGN OF A (G+3) MULTISTORIED RESIDENTIAL BUILDING USING STAAD PRO**”. submitted by **S. SRAVANI (196G5A0162)**. In partial fulfillment of the requirements for the award of degree of “**BACHELOR OF TECHNOLOGY in “CIVIL ENGINEERING”**” from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by them under our guidance and supervision

PROJECT GUIDE

MS. Y.PRIYANKA, M.Tech

Assistant professor

Department of civil engineering

Visakha technical campus

H.O.D

V. BHARGAVI, M.Tech,(Ph.d)

Head of the department

Department of civil engineering

Visakha technical campus

EXTERNAL EXAMINER

VISAKHA TECHNICAL CAMPUS

(Approved by AICTE, New Delhi & Affiliated to JNTU

KAKINADA) 57TH Division, Narava, Visakhapatnam



CERTIFICATE

This is certify that the project report entitled **"ANALYSIS AND DESIGN OF A (G+3) MULTISTORIED RESIDENTIAL BUILDING USING STAAD PRO"**. submitted by **S.ABDUL RAHIM(196G5A0160)**. In partial fulfillment of the requirements for the award of degree of **"BACHELOR OF TECHNOLOGY in "CIVIL ENGINEERING"** from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by them under our guidance and supervision

PROJECT GUIDE

MS. Y.PRIYANKA, M.Tech

Assistant professor

Department of civil engineering

Visakha technical campus

H.O.D

V. BHARGAVI, M.Tech,(Ph.d)

Head of the department

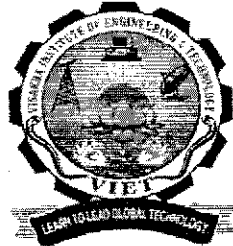
Department of civil engineering

Visakha technical campus

EXTERNAL EXAMINER

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

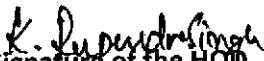
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled **STOCK MARKET PRICE PREDICTION BY USING LSTM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **V.Mounika**, in partial fulfillment for the award of B. Tech in **Visakha Institute Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.


Signature of the HOD

K.RUPENDRA SINGH
MTECH(Phd)


Signature of the Guide

K.RUPENDRA SINGH
MTECH(Phd)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

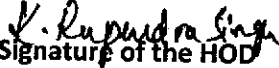
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING




CERTIFICATE

This is to certify that the Project report entitled **STOCK MARKET PRICE PREDICTION BY USING LSTM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **CH.Mounika**, in partial fulfillment for the award of B. Tech in **Visakha Institute Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.


Signature of the HOD

K.RUPENDRA SINGH
MTECH(Phd)


Signature of the Guide

K.RUPENDRA SINGH
MTECH(Phd)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

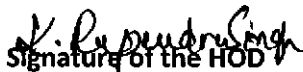
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



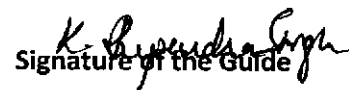
CERTIFICATE

This is to certify that the Project report entitled **MOVING OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **P.Srinu**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.


Signature of the HOD

K.RUPENDRA SINGH
MTECH(Phd)


Signature of the Guide

K.RUPENDRA SINGH
MTECH(Phd)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled **MOVING OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **G.Chanti**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

K. Rupendra Singh
Signature of the HOD

K.RUPENDRA SINGH
MTECH(Phd)

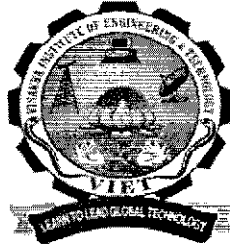
K. Rupendra Singh
Signature of the Guide

K.RUPENDRA SINGH
MTECH(Phd)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled **DEEP SMOKE SEGMENTATION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **D.Manohar**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.


Signature of the HOD

K.RUPENDRA SINGH
MTECH(Phd)


Signature of the Guide

K.RUPENDRA SINGH
MTECH(Phd)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled **DEEP SMOKE SEGMENTATION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms V.Ajay, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.


Signature of the HOD

K.RUPENDRA SINGH
MTECH(Phd)


Signature of the Guide

K.RUPENDRA SINGH
MTECH(Phd)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled **DETECTION OF COVID-19 BY USING X-RAY IMAGES** is being submitted by Mr./Miss/Ms **G.Nookaratnam**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.


Signature of the HOD

K.RUPENDRA SINGH
MTECH(Phd)


Signature of the Guide

K.RUPENDRA SINGH
MTECH(Phd)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

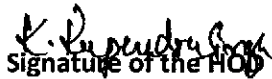
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



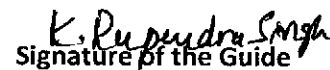
CERTIFICATE

This is to certify that the Project report entitled **DETECTION OF COVID-19 BY USING X-RAY IMAGES** is being submitted by Mr./Miss/Ms **CH.Tulasi**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.


Signature of the HOD

K.RUPENDRA SINGH
MTECH(Phd)


Signature of the Guide

K.RUPENDRA SINGH
MTECH(Phd)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled “**Prediction of Traffic Crash Severity using Deep Nueral Network**” is being submitted by Mr./Miss/Ms **B.Sirisha**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

K. Rupendra Singh
Signature of the HOD

K.RUPENDRA SINGH
M.Tech (PhD)

B. Lakshman Rao
Signature of the Guide

B.LAKSHMAN RAO
M.Tech (PhD)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled “**Prediction of Traffic Crash Severity using Deep Nueral Network**” is being submitted by Mr./Miss/Ms **B.Yamini**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

K. Rupendra Singh
Signature of the HOD

K.RUPENDRA SINGH
M.Tech (PhD)

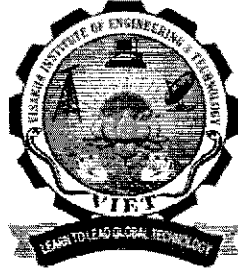
B.Lakshman Rao
Signature of the Guide

B.LAKSHMAN RAO
M.Tech (PhD)

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

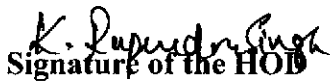
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled “**Voting System using Biometrics**” is being submitted by Mr./Miss/Ms **A.Varsha**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.


Signature of the HOD

K.RUPENDRA SINGH
M.Tech (PhD)


Signature of the Guide

M.LAVANYA
M.Tech

External Examiner

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

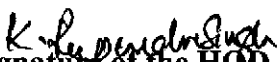
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled “**Voting System using Biometrics**” is being submitted by Mr./Miss/Ms **B.Renuka Varalakshmi**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.


Signature of the HOD

K.RUPENDRA SINGH
M.Tech (PhD)


Signature of the Guide

M.LAVANYA
M.Tech

External Examiner

GSTIN No: - 37AAHFT4366R1Z9
PAN No - AAHFT4366R



CERTIFICATE OF TRAINING

This is to certify that **MANTHINI SYAMALA** studying in B.Tech course **EEE** at **VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY** College undergone in training with us. Pin No:- **20NT5A0405**. His/Her training period was from **24/01/2022** to **29/01/2022**. The above training He/She has learnt various aspects of Starters, Starter equipments & work on starters.

(S.RANADHEER BABU)

C.E.O

TECHMEET,

VISAKHAPATNAM.



PRINCIPAL
VISAKHA INSTITUTE OF
ENGINEERING & TECHNOLOGY
Narava, Visakhapatnam - 530027

GSTIN: 37ACSF3061OP1ZB



SRI VENKATESWARA

POWER SYSTEMS

**A - GRADE ELECTRICAL CONTRACTORS UPTO 33 KV
CPRI APPROVED LT PANEL BOARD MANUFACTURER**

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **BODHA DURGA PRASAD** has undergone Internship at our Factory, **SRI VENKATESWARA POWER SYSTEMS Plot No. 194/5, D-Block, Autonagar, Visakhapatnam-530012** for duration of 1week from **15-11-2021 to 20-11-2021** on "**LT Panel Boards Manufacturing Process**"

He/She bears a moral character & is hard working.

For M/s. SRI VENKATESWARA POWER SYSTEMS

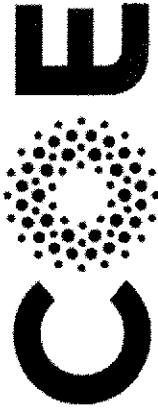
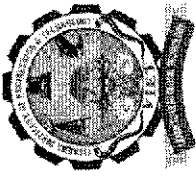


Place : Visakhapatnam

Date: 11-11-2021

OFFICE & WORK SHOP: Plat No.19445 D – Black, IDA Autonagar, Visakhapatnam,

Mob 99080 43093, 9052646496, E-mail srivenkateswara79@gmail.com

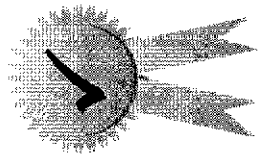


Center of Excellence

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

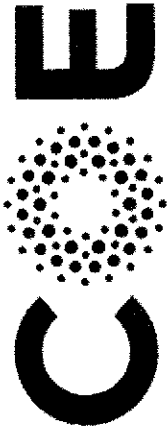
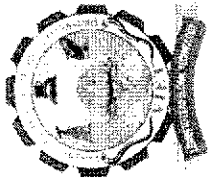
CERTIFICATE OF PARTICIPATION

This is to certify that **Mr/Mrs. DASARI VENU**, a student of Mechanical Engineering, Visakha Institute of Engineering and Technology, Visakhapatnam has successfully completed 2 (Two) Weeks (From 08th August, 2022 to 20th August, 2022) internship programme on **CATIA & ANSYS** at Centre of Excellence, Visakha Institute of Engineering and Technology, Narava, Visakhapatnam. During the period of his/her Internship programme with us he/she was found punctual, hardworking and inquisitive.



Centre In-charge

Director



Center of Excellence

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE OF PARTICIPATION

This is to certify that **Mr/Mrs. VEMULA ANIL KUMAR**, a student of Automobile Engineering, Visakha Institute of Engineering and Technology, Visakhapatnam has successfully completed 2 (Two) Weeks (From 08th August, 2022 to 20th August, 2022) internship programme on **CATIA & ANSYS** at Centre of Excellence, Visakha Institute of Engineering and Technology, Narava, Visakhapatnam. During the period of his/her Internship programme with us he/she was found punctual, hardworking and inquisitive.



Centre In-charge

Director

Industrial Training Certification

This Certificate is awarded to

KAVALA BHASKARA DURGA

Student of Visakha Institute of Engineering and Technology (vizag)

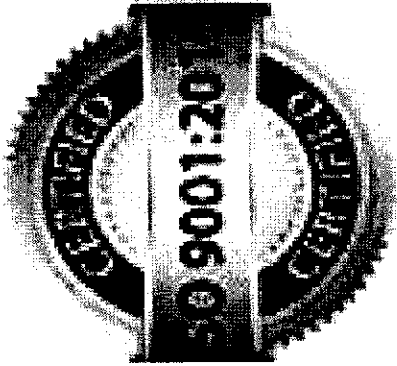
for successfully completing Industrial Training

“DATA SCIENCE USING PYTHON”

Scoring Grade: “A+”

Training ID: HMIES2022DS2633

FROM 02-02-2022 TO 16-02-2022



**INNOVATION
VALLEY**



DINESH KUMAR NIRAYAT
CEO
HMI Engineering Services



Industrial Training Certification

This Certificate is awarded to

KETHINENI ADARSH

Student of Visakha Institute of Engineering and Technology (vizag)

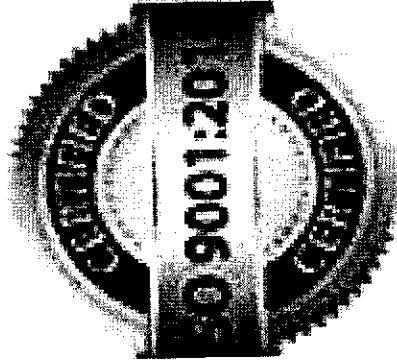
for successfully completing Industrial Training

“DATA SCIENCE USING PYTHON”

Scoring Grade: “A”

Training ID: HMIES2022DS2634

FROM 02-02-2022 TO 16-02-2022



**INNOVATION
VALLEY**

DINESH KUMAR NIRAWAT
CEO
HMI Engineering Services



GSTIN No: - 37AAHFT4366R1Z9
PAN No - AAHFT4366R



CERTIFICATE OF TRAINING

This is to certify that **GURUGUBILLI RAJKUMAR** studying in B.Tech course **EEE** at **VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY** College undergone in training with us. Pin No:- **20NT5A0402**. His/Her training period was from **24/01/2022** to **29/01/2022**. The above training He/She has learnt various aspects of Starters, Starter equipments & work on starters.

(S.RANADHEER BABU)

C.E.O

TECHMEET,

VISAKHAPATNAM.



PRINCIPAL
VISAKHA INSTITUTE OF
ENGINEERING & TECHNOLOGY
Narava, Visakhapatnam - 530027

GSTIN No: - 37AAHFT4366R1Z9
PAN No - AAHFT4366R



CERTIFICATE OF TRAINING

This is to certify that **MADDALA MADHURI** studying in B.Tech course **EEE** at **VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY** College undergone in training with us. Pin No:- **20NT5A0404**. His/Her training period was from **24/01/2022** to **29/01/2022**. The above training He/She has learnt various aspects of Starters, Starter equipments & work on starters.

A handwritten signature in black ink, appearing to read "S. Ranadheer Babu".

(S.RANADHEER BABU)

C.E.O

TECHMEET,

VISAKHAPATNAM.



A handwritten signature in green ink, appearing to read "D. S. Narava".

PRINCIPAL
VISAKHA INSTITUTE OF
ENGINEERING & TECHNOLOGY
Narava, Visakhapatnam - 530027

Hindustan Shipyard Ltd.

(A Govt. of India Undertaking)

Gandhigram

VISAKHAPATNAM - 530 005 (INDIA)

(An ISO - 9001:2008 Company)

**हिन्दुस्तान शिपयार्ड लिमिटेड**

(भारत सरकार का उपक्रम)

गांधीग्राम

विशाखपट्टणम - 530 005 (भारत)

(आई.एस.ओ. - 9001:2008 कंपनी)

Date: 14-04-2021

CERTIFICATE

This is to certify that SURPURPU SIVAJI is studying B.Tech III Year Mechanical in Visakha Institute of Engineering and Technology, Narava, has undergone INDUSTRIAL TRAINING in our organization as per the following details:

AREA / FIELD	PERIOD
SHEET METAL	19-04-2021 To 24-04-2021

His / Her conduct during the above period is found to be **GOOD**

PRINCIPAL

**VISAKHA INSTITUTE OF
ENGINEERING & TECHNOLOGY**
Narava, Visakhapatnam - 530027For Hindustan Shipyard Limited
For Hindustan Shipyard Limited
विजय सायमारे / Vijay Saghmare
सिनिअर प्रबंधक (क्रय एवं सामग्री)
Senior Manager (Purchase & Material)

Registered Office : Gandhigram, Gandhigram Post Office, Visakhapatnam - 530 005. (A. P.)

Fax : (+91-891) 2577502, 2577356, 2577667 (DD&SR), 2577038(EKM)

Web : www.hsl.gov.in, www.hsl.nic.in

CIN : U74899AP1952G01076711

Hindustan Shipyard Ltd.

(A Govt. of India Undertaking)

Gandhigram

VISAKHAPATNAM - 530 005 (INDIA)

(An ISO - 9001:2008 Company)

**हिन्दुस्तान शिपयार्ड लिमिटेड**

(भारत सरकार का उपक्रम)

गान्धीग्राम

विशाखपट्टणम - 530 005 (भारत)

(आई.एस.ओ. - 9001:2008 कंपनी)

Date: 14-04-2021

CERTIFICATE

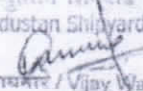
This is to certify that TENKALA BHARGAV SAI is studying B.Tech III Year Mechanical in Visakha Institute of Engineering and Technology, Narava, has undergone INDUSTRIAL TRAINING in our organization as per the following details:

AREA / FIELD	PERIOD
SHEET METAL	19-04-2021 To 24-04-2021

His / Her conduct during the above period is found to be **GOOD**


PRINCIPAL
VISAKHA INSTITUTE OF
ENGINEERING & TECHNOLOGY
Narava, Visakhapatnam - 53002

For Hindustan Shipyard Limited


Sanjay Waghmare / Vijay Waghmare
सेलिंग प्रबंधक (क्रय एवं सामग्री)
Sales Manager (Purchase & Material)



Registered Office : Gandhigram, Gandhigram Post Office, Visakhapatnam - 530 005, (A. P.)
Fax : (+91-891) 2577502, 2577356, 2577667 (DD&SR), 2577038(EKM)
Web: www.hsl.gov.in, www.hsl.nic.in
CIN : U74899AP1952G01076711



Date: 14-04-2021

CERTIFICATE

This is to certify that THARUN REDDY BUSA is studying B.Tech III Year Mechanical in Visakha Institute of Engineering and Technology, Narava, has undergone INDUSTRIAL TRAINING in our organization as per the following details:

AREA / FIELD	PERIOD
SHEET METAL	19-04-2021 To 24-04-2021

His / Her conduct during the above period is found to be **GOOD**

PRINCIPAL
VISAKHA INSTITUTE OF
ENGINEERING & TECHNOLOGY
Narava, Visakhapatnam - 530027

हिन्दुस्तान शिपयार्ड लिमिटेड
For Hindustan Shipyard Limited

विजय वाघमारे / Vijay Waghmare
सिस्टम प्रबंधक (अपघटन एवं सामग्री)
Senior Manager (Purchase & Materials)



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वॉसल्स प्लांट, विशाखापत्तनम - 530012, आ.प्र., भारत.

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/07/2021

CERT.NO:6465/11/11/21

Date: 14.12.2021

CERTIFICATE

This is to certify that Miss. PECHETI SAI VIJAYA LAKSHMI D/o Shri PECHETI APPALARAJU studying MBA(HR) in Visakh Institute of Engineering & Technology, Narava, Visakhapatnam. Has done Project Work on "A STUDY ON HR POLICIES AND PRACTICES" in BHEL-HPVP VISAKHAPATNAM, from 11-11-2021 to 10-12-2021.

During the above period her CONDUCT & CHARACTER were found Very Good and we wish her a bright future.

(G Kuru Murthy) 14/12/2021

Dy. General Manager (HRDC & Security)

Tel. No. 0891-6681280, Fax: 6681700, e-mail: xxxx@bhel.in, website: www.bhel.com



Maharatna Company

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

24

हेवी प्लेट्स एंड वेसल्स प्लांट, विसाखपत्नाम - 530012, आ.प्र., भारत.

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/07/2021


CERT.NO:6462/11/11/21

Date: 14.12.2021

CERTIFICATE

This is to certify that Miss. KONATHALA KOMALI KUMARI D/o Shri KONATHALA NOOKARAJU studying MBA(HR) in Visakh Institute of Engineering & Technology, Narava, Visakhapatnam. Has done Project-Work on "A STUDY ON TRAINING AND DEVELOPMENT" in BHEL-HPVP VISAKHAPATNAM, from 11-11-2021 to 10-12-2021.

During the above period her CONDUCT & CHARACTER were found Very Good and we wish her a bright future.


(G. Kuru Murthy)
Dy. General Manager (HRDC & Security)

Tel. No. 0891-6681280, Fax: 6681700, e-mail: hrdc@bhel.in, website: www.bhel.com



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वॉसल्स प्लांट, विशाखापत्तनम - 530012, आ.प्र., भारत.

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/07/2022

CERT.NO:6504/04/01/22

Date: 17.03.2022

CERTIFICATE

This is to certify that Miss. KANDRAGULA GOVARDHINI D/o Shri K VIJAY VENKATA APPARAO studying MBA (Finance) in Visakha Institute of Engineering & Technology, VISAKHAPATNAM. Has done Project Work on "A STUDY ON RATIO ANALYSIS" in BHEL-HPVP VISAKHAPATNAM, from 04-01-2022 to 03-02-2022.

During the above period her CONDUCT & CHARACTER were found Very Good and we wish her a bright future.

(G Kuru Murthy)

Dy. General Manager (HRDC & Security)

Dy. General Manager (HRDC & Security)
वी.ए.ए.प्ल., एच.पी.सी./BHEL-HPVP
विशाखापत्तनम/VISAKHAPATNAM

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
VISAKHA TECHNICAL CAMPUS**

88th DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027

2021 - 2022



CERTIFICATE

This is to certify that the Project entitled “**BORROW SELECT SUBTRACTOR FOR LOW POWER & AREA EFFICIENCY**” that is being submitted by **K.PAVAN KALYAN** (Regd No: 186G1A0412), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during 2021-2022, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.


Project Guide

Mr. B.RAMESH KUMAR, M.Tech
Assistant Professor
Dept.of ECE



Head of the Department
Mr. B.JEEVAN RAO, M.Tech (Ph.D)
Associate Professor
Dept.of ECE

EXTERNAL EXAMINER

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
VISAKHA TECHNICAL CAMPUS
88th DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027
2021 - 2022



CERTIFICATE

This is to certify that the Project entitled “BORROW SELECT SUBTRACTOR FOR LOW POWER & AREA EFFICIENCY” that is being submitted by M.L.APOORVA (Regd No: 186G1A0413), in partial fulfillment for the award of B.Tech degree in **Electronics and Communication Engineering** during 2021-2022, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

B Ramesh Kumar

Project Guide
Mr. B.RAMESH KUMAR, M.Tech
Assistant Professor
Dept.of ECE

B.J.R

Head of the Department
Mr. B.JEEVAN RAO, M.Tech (Ph.D)
Associate Professor
Dept.of ECE

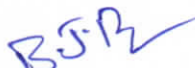
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY
88th DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**


2021 - 2022



CERTIFICATE

This is to certify that the Project entitled “**DETECTION OF HEART BLOCKS USING CT SCAN IMAGE**” that is being submitted by **CH.HEMALATHA (Regd No: 18NT1A0403)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.


Project Guide
Mr.B JEEVAN RAO, M.Tech (Ph.D)
Associate Professor
Dept.of ECE


Head of the Department
Mr. B JEEVAN RAO, M.Tech (Ph.D)
Associate Professor
Dept.of ECE


EXTERNAL EXAMINER


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY
88th DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027
2021 - 2022



CERTIFICATE

This is to certify that the Project entitled “**DETECTION OF HEART BLOCKS USING CT SCAN IMAGE**” that is being submitted by **D.VIJAYA** (Regd No: 18NT1A0404), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.


Project Guide
Mr.B JEEVAN RAO, M.Tech (Ph.D)
Associate Professor
Dept.of ECE


Head of the Department
Mr. B JEEVAN RAO, M.Tech (Ph.D)
Associate Professor
Dept.of ECE

EXTERNAL EXAMINER

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

88th DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027

2021 - 2022



CERTIFICATE

This is to certify that the Project entitled “**INDUSTRIAL MACHINE MONITORING AND ALERTING SYSTEM**” that is being submitted by **P.VENKATESH (Regd No: 18NT1A0408)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

E. Bhanu Prakash

Project Guide
Mr.E.BHANU PRAKASH, M.Tech
Assistant Professor
Dept.of ECE

B. Jeevan Rao

Head of the Department
Mr. B JEEVAN RAO, M.Tech (Ph.D)
Associate Professor
Dept.of ECE

EXTERNAL EXAMINER

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

88th DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027

2021 - 2022



CERTIFICATE

This is to certify that the Project entitled “**INDUSTRIAL MACHINE MONITORING AND ALERTING SYSTEM**” that is being submitted by **G.BALA PRAVEENA KUMARI** (Regd No: 19NT5A0403), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

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CERTIFICATE

This is to certify that the Project entitled “**HOME AUTOMATION USING NODE MCU**” that is being submitted by **P.URMILA (Regd No: 19NT5A0411)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

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This is to certify that the Project entitled “**HOME AUTOMATION USING NODE MCU**” that is being submitted by **M.SIRISHA (Regd No: 19NT5A0413)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakhia institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

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This is to certify that the Project entitled “HOME AUTOMATION USING NODE MCU” that is being submitted by **A.LAXMI (Regd No: 19NT5A0401)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

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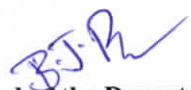
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CERTIFICATE

This is to certify that the Project entitled “**HIGH SPEED MULTIPLIER DESIGN BY USING VLSI HYBRID ADDER**” that is being submitted by **B.VENKATESWARLU REDDY (Regd No: 18NT1A0402)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.


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CERTIFICATE

This is to certify that the Project entitled “**HIGH SPEED MULTIPLIER DESIGN BY USING VLSI HYBRID ADDER**” that is being submitted by **P.S PRUDVI (Regd No: 18NT1A0406)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.


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