

GIET ENGINEERING COLLEGE

[Affiliated to JNTUK, Kakinada] accredited by NACCI]

NH-16 CHAITHANYA KNOWLEDGE CITY, RAJAHMAHENDRAVARAM[A.P]

2018-2022

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



CERTIFICATE

This is to certify that

JAHNAVI RAGHAVA SINGH

18T91A0542

KAVYA DEVADA

18T91A0537

KODAVATI RAKESH

18T91A0522

Studying IV B.Tech II Semester of Computer Science and Engineering branch have submitted their project "Skin Cancer Classification Using Machine Learning Algorithms" during the academic year 2018-2022 in partial fulfilment of the requirements for the award of degree in Bachelor of Technology, JNTUK, Kakinada. The result embodied in this project has not been submitted to any other University or Institute for the award of a degree.


Project Guide

Mr. Patra Sasi Kumar, M.Tech.,(Ph.D)

Assistant professor

Department of CSE



Head of the Department

Dr. Meerasharif Sheik, Ph.D

Professor & HOD

Department of CSE


INTERNAL EXAMINER


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 298


EXTERNAL EXAMINER

GIET ENGINEERING COLLEGE

(Affiliated to JNTUK Kakinada | Accredited by NAAC)

NH-16 CHAITANYAKNOWLEDGE CITY, RAJAMAHENDRAVARAM (A.P)

2018-2022



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CERTIFICATE

This is to certify that

A.DIVYA SRI	18T91A0503
V.SAI SNEHA CHAND	18T91A0549
D. R. S. NAGESH	18T91A0515
P.AJAY	18T91A0535

Studying IV B.Tech II Semester of Computer Science and Engineering branch have submitted their project “**STUDENT PERFORMANCE ANALYSIS**” during the academic year 2018-2022 in partial fulfilment of the requirements for the award of degree in Bachelor of Technology, JNTUK, Kakinada. The result embodied in this project has not been submitted to any other University or Institute for the award of degree.

Project Guide

Mr. B. SRINIVASA RAO, M.Tech.,

Assistant Professor

Department of CSE

Head of the Department

Dr. SK. MEERA SHARIF, Ph.D.,

Professor and HOD

Department of CSE

Internal Examiner

External Examiner

Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City
RAJAHMUNDRY-533 296

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GIET ENGINEERING COLLEGE

(Affiliated to JNTU- Kakinada)



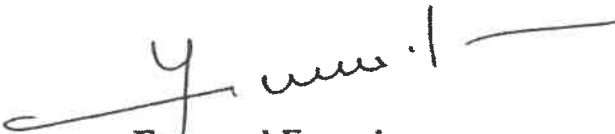
This is to certify that the project work entitled "DETECTION OF FAKE AND CLONE ACCOUNTS IN TWITTER USING CLASSIFICATION AND DISTANCE MEASURE ALGORITHMS " is being carried by P.GANGA BHAVANI (18T91A0538), R.S.M.S.C MAHESH (18T91A0543), G.RUCHITHA (18T91A0501), AND K.SAICHARAN (18T91A0523) in partial fulfillment the requirements for the award of the Degree of Bachelor of Technology, In the Department of Computer Science and Engineering, GODAVARI INSTITUTTE OF ENGINEERING AND TECHNOLOGY, affiliated to Jawaharlal Nehru Technology University Kakinada, is a Record of Bonafide work carried out by him/her under my guidance and supervision engineering during the academic year 2021-2022.


Project Guide & Head Of The Department

Dr. Meerasharief Sheik, Ph.D

Dept. of CSE


Internal Examiner


External Examiner

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

Principal
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GIET ENGINEERING COLLEGE

(Affiliated to JNTU Kakinada , Chaitanya knowledge city , Rajahmundry,

Andhra Pradesh-533296)

2018-2022



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.gietec.ac.in

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that

B. Naga Lavanya	18T91A0507
B. Sowmya	18T91A0509
P. Jessy cyrus	18T91A0534
D. Yaswini	18MU1A0505

This is to certify that project report entitled “**CROP YIELD FERTILIZER CROP DISEASE PREDICTION USING ML**” is being submitted in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in “**COMPUTER SCIENCE AND ENGINEERING**” is a record of bonafide work carried out by them under my guidance and supervision during the academic year 2021-2022 and it has been found worthy of acceptance according to the requirements of the university.


Project Guide

Mr.K.NAGARAJU,M.Tech(Ph.D.)

Associate Professor

Department of CSE


Head of the Department

Dr.SK. MEERA SHARIF,Ph.D.

Professor & HOD

Department of CSE


Internal Examiner


External Examiner


Principal
GIET ENGINEERING COLLEGE,
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RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

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NH-16 CHAITANYA KNOWLEDGE CITY, RAJAMAHENDRAVARAM

2018-2022



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.gietec.ac.in

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that

B. GOWRI SHANKAR NAGABABU	18T91A0506
B. SOWMYA	18T91A0508
I. JYOTHI BABU	18T91A0519
M. HANISHA	18T91A0531

Studying IV B. Tech II Semester of Computer Science and Engineering branch have submitted their project " INTACT DESTINATION USING INTERNET OF THINGS " during the academic year 2018-2022 in partial fulfillment of the requirements for the award of degree in Bachelor of Technology, JNTUK, Kakinada. The result embodied in this project has not been submitted to any other University or Institute for the award of degree.


Project Guide

Mr. M. SREENIVASU, M. Tech (Ph. D.)

Associate Professor

Department of CSE


Head of the Department

Dr. Sk. M. SHARIEF, Ph.D.

Professor & HOD

Department of CSE


INTERNAL EXAMINER


EXTERNAL EXAMINER


Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 286

GIET ENGINEERING COLLEGE

[Affiliated to JNTUK, Kakinada | Accredited by NACC]

NH-16 CHAITANYA KNOWLEDGE CITY, RAJAMAHENDRAVARAM (A.P)

2018-2022




DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that

M.V.S.MANIKANTA	18T91A0528
P.JASHNAVI	18T91A0536
J.GANESH	18T91A0521
Y.RAMYA SRI	18T91A0516

Studying IV B. Tech II Semester of Computer Science and Engineering branch have submitted their project “**Android Application for Digital Bus Pass Management System**” during the academic year 2018-2022 in partial fulfillment of the requirements for the award of degree in **Bachelor of Technology, JNTUK, Kakinada**. The result embodied in this project has not been submitted to any other University or Institute for the award of degree.


Project Guide


Mr. J.BALA AMBEDKAR, M. Tech
Assistant Professor
Department of CSE


Head of the Department

Dr. SK.M. SHARIF, M. Tech, Ph. D
Professor & HOD
Department of CSE


INTERNAL EXAMINER


EXTERNAL EXAMINER


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-530 090.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GIET ENGINEERING COLLEGE

[Affiliated to JNTUK, Kakinada | Accredited by NACC]

NH-16 CHAITANYA KNOWLEDGE CITY, RAJAMAHENDRAVARAM(A P)

2018-2022



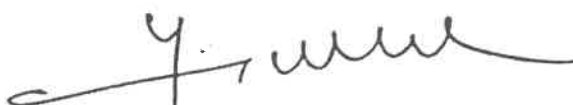
This is to certify that the project work entitled "STUDENT ATTENDANCE MANAGEMENT SYSTEM BASED FACIAL RECOGNITION" is being carried by **B.GANGADHAR (18T91A0510), G.SUSHMITHA (18T91A0517), M L N KRISHNA TEJA (18T91A0529), S NEELESH KUMAR (18T91A0544)** in partial fulfillment the requirements for the award of the Degree of Bachelor of Technology, In the Department of Computer Science and Engineering, GIET ENGINEERING COLLEGE, affiliated to Jawaharlal Nehru Technology University Kakinada, is a Record of Bonafide work carried out by him/her under my guidance and supervision engineering during the academic year 2021-2022.



Project Guide & Head of the Department

Dr. SHEIK MEERA SHARIF, M.Tech, Ph.D

Dept. of CSE


INTERNAL EXAMINER


EXTERNAL EXAMINER


Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAMUNDRAVARAM, A.P.

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NH-16 CHAITANYA KNOWLEDGE CITY, RAJAMAHENDRAVARAM(A.P)
2018-2022



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that

G. J. SRIJA	18MU1A0508
S. ISHWARYA	18T91A0545
S. VANI	18T91A0547
M. SATYASRI	18MU1A0523

Studying IV BTech II Semester of Computer Science and Engineering branch have submitted their project “ *OPTICAL CHARACTER RECOGNITION ON IMAGE* ” during the academic year 2018-2022 in partial fulfillment of the requirements for the award of degree in Bachelor of Technology, JNTUK, Kakinada. The result embodied in this project has not been submitted to any other University or Institute for the award of degree.

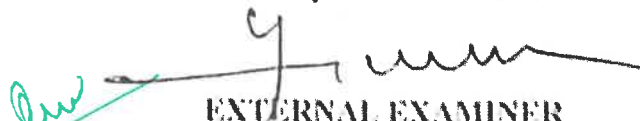
Project Guide


Head of the Department


Mr. K. NAGARAJU, M. Tech(Ph.D)
Associate Professor
Department of CSE

Dr.SK. M. SHARIF, M.TECH, Ph.D
Professor &HOD
Department of CSE

INTERNAL EXAMINER


EXTERNAL EXAMINER


Principal
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NH-16 CHAITANYA KNOWLEDGE CITY, RAJAMAHENDRAVARAM (A.P)

2018-2022

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



CERTIFICATE

This is to certify that

K. GOWRI PRASANNA	18T91A0524
G. APARANJI	18T91A0518
P. H. M. SIVA PRASAD	19T95A0501
Y. SATTI RAJU	18T91A0553

Studying IV B. Tech II Semester of Computer Science and Engineering branch have submitted their project "COLLEGE ADMINISTRATIVE MANAGEMENT SYSTEM" during the academic year 2018-2022 in partial fulfilment of the requirements for the award of degree in Bachelor of Technology, JNTUK, Kakinada. The result embodied in this project has not been submitted to any other University or Institute for the award of degree.



Project Guide

Mr. P. SASI KUMAR, M.Tech, (Ph.D)
Assistant Professor,
Department of CSE


Head of the Department

Dr. SK. MEERA SHARIF, Ph.D.,
Professor & HOD,
Department of CSE


INTERNAL EXAMINER


EXTERNAL EXAMINER

i


Principal
GIET ENGINEERING COLLEGE,
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RAJAMUNDRY-530 081.

GIET ENGINEERING COLLEGE

(Affiliated to JNTUK Kakinada, Accredited by NAAC)

NH-16 CHAITANYA KNOWLEDGE CITY,

RAJAMAHENDRAVARAM (A.P)

2018-2022



DEPARTMENT OF COMPUTER SCIENCE ENGINEERING CERTIFICATE

This is to certify that

B.HEMANTH	18T91A0512
U.PATTABHIRAM	18T91A0548
A.N.D.S.MANIKANTA	18T91A0505
P.SIVA RAMAKRISHMA	18T91A0539

This is to certify that project report entitled "STUDENT FACULTY INTERACTION APP" is being submitted by in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in "COMPUTER SCIENCE ENGINEERING" is a record of bonafide work carried out by them under my guidance and supervision during the academic year 2021-2022 and it has been found worthy of acceptance according to the requirements of the University.

T. Meenakshi
Project Guide

Mrs. T.MEENAKSHI, M.Tech.,
Assistant Professor
Department of CSE

Internal Examiner

Dr. SK. M. Sharief
Head of the Department

Dr. SK. M. SHARIEF M.Tech, Ph.D
Professor & HOD

Department of CSE
External Examiner

Principal

GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City
RAJAMAHENDRAVARAM (A.P)

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NH-16 CHAITANYAKNOWLEDGE CITY,
RAJAMAHENDRAVARAM (A.P)

2018-2022



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CERTIFICATE

This is to certify that

E. NAGA SRINIJA	18MU1A0520
K.SRI LAKSHMI	18MU1A0522
S. SIREESHA	18MU1A0513
M.ANUDEEP REDDY	18MU1A0524

Studying IV B. Tech 11 Semester of Computer Science and Engineering branch have submitted their project “**CREDIT CARD FRAUD DETECTION USING ADABOOST AND MAJORITY VOTING**” during the academic year 2018-2022 in partial fulfillment of the requirements for the award of degree in Bachelor of Technology, JNTUK, Kakinada. The result embodied in this project has not been submitted to any other University or Institute for the award of degree.

T. Meenakshi
Project Guide

Mrs. T. Meenakshi, M. Tech.,
Assistant Professor
Department of CSE

[Signature]
Internal Examiner

[Signature]
Head of the Department

Dr. SK. M. Sharif, M. Tech, Ph. D,
Professor and HOD

Department of CSE

[Signature]
External Examiner

[Signature]
Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

[Affiliated to JNTUK, Kakinada | Accredited by NACC]
NH-16 CHAITANYA KNOWLEDGE CITY, RAJAMAHENDRAVARAM (A.P)

2018-2022

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



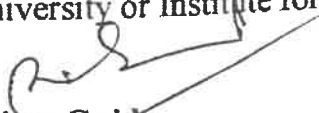
CERTIFICATE

This is to certify that


L.BHAVANIDEVI	18T91A0525
Y.PURNA LAVANYA	18T91A0552
D.MALATHY	18MU1A0506
D.KOMAL KIRAN	18T91A0513

Studying IV B. Tech II Semester of Computer Science and Engineering branch have submitted their project "COLLEGE PROJECT MANAGEMENT SYSTEM" during the academic year 2018-2022 in partial fulfilment of the requirements for the award of degree in Bachelor of Technology, JNTUK, Kakinada.


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


Project Guide
Mr.B.SRINIVASA RAO, M.Tech
Assistant Professor
Department of CSE


INTERNAL EXAMINER


Head of the Department
Dr.SK.MEERA SHARIF, Ph.D.
Professor & HOD
Department of CSE


EXTERNAL EXAMINER


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDY-533 296.

GIET ENGINEERING COLLEGE
(Affiliated to JNTUK Kakinada | Accredited by NAAC)
NH-16 CHAITANYAKNOWLEDGE CITY, RAJAMAHENDRAVARAM (A.P)
2018-2022



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CERTIFICATE

This is to certify that

B. THANMAYI	18T91A0511
V. SAI SUDHA	18T91A0550
D. MOHAN	18T91A0514
S.C. SUDHEER	18MU1A0525

Studying IV B.Tech II Semester of Computer Science and Engineering branch have submitted their project "DRIVER DROWSINESS DETECTION USING DEEP LEARNING " during the academic year 2018-2022 in partial fulfilment of the requirements for the award of degree in Bachelor of Technology, JNTUK, Kakinada. The result embodied in this project has not been submitted to any other University or Institute for the award of degree.

Archana
Project Guide

Mrs. CH. ARCHANA, M.Tech.,
Assistant Professor
Department of CSE

Dr. SK. Meera Sharif
Head of the Department

Dr. SK. MEERA SHARIF, Ph.D.,
Professor and HOD
Department of CSE

(S. S. S. S.)
Internal Examiner

Y. S. S. S.
External Examiner

Principal
Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 190.

GIET ENGINEERING COLLEGE
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NH-16 CHAITANYAKNOWLEDGE CITY,
RAJAMAHENDRAVARAM (A.P)

2018-2022



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CERTIFICATE

This is to certify that

M.D.A.RAJU	18T91A0526
A.SRIVALLI	18T91A0504
V.CHANDANA	18T91A0551

Studying IV B.Tech II Semester of Computer Science and Engineering branch have submitted their project "ARDUINO BASED HAND GESTURE FOR VIDEOS" during the academic year 2018-2022 in partial fulfillment of the requirements for the award of degree in Bachelor of Technology, JNTUK, Kakinada. The result embodied in this project has not been submitted to any other University or Institute for the award of degree.

Archana
Project Guide

Mrs. CH.ARCHANA, M.Tech.,
Assistant Professor
Department of CSE

[Signature]
Internal Examiner

[Signature]
Head of the Department

Dr. SK.M.SHARIF, M.Tech, Ph.D.
Professor and HOD
Department of CSE

[Signature]
External Examiner

[Signature]

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAMAHENDRAVARAM

GIET ENGINEERING COLLEGE

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

Rajahmundry, 533101, E.G Dist.,

Andhra Pradesh

2018-2022



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.gietec.ac.in

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to Certify that the project entitled "EFFECT OF MOLARITY CONCENTRATION ON THE COMPRESSIVE STRENGTH OF GEOPOLYMER CONCRETE" is being submitted for the partial Fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING at GIET Engineering College RAJAMAHENDRAVARAM, is a bono-fide work carried by JUTHIGA REVATHI (19T95A0103), TELAGAMREDDI SUNEETHA (18T91A0113), SESETTI SADHA SUSMITHA (18T91A0115), IMMANDI UMESH VAS (18T91A0105), PERALA TEJA (19T95A0113) under the guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirements of the university.

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

Project Guide

A.M.N. KASHYAP

Head of The Department

E.T. CHAKRAPANI

External Examiner

Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE
(Approved by AICTE, New Delhi Accredited by NAAC Affiliated to JNTUK, Kakinada.)

Rajamahendravaram E.G Dist,
ANDHRA PRADESH-533101.

DEPARTMENT OF CIVIL ENGINEERING



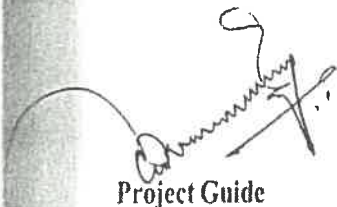
GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.gietec.ac.in

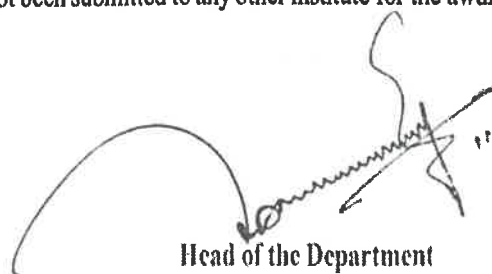
CERTIFICATE

This is to certify that this work entitled " **EXPERIMENTAL INVESTIGATIONS ON PARTIALLY REPLACED BAUXITE SLAG BASED CONCRETE STRENGTH CHARACTERISTICS** "is being submitted for the partial Fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** at **GIET Engineering College RAJAHMAHENDRAVARAM**, is a bona- fide work carried by **S. SAMBA SIVA RAO (19T95A0108), K. HEMANTH KUMAR (18T91A0106), V. SAI TEJA (19T95A0110), K. NAGA RAJU (19T95A0111)** under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirements of the university.

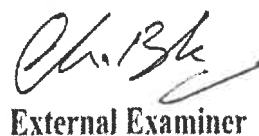
The result embodied in this project has not been submitted to any other institute for the award of any degree.



Project Guide



Head of the Department



External Examiner



Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 301.

GIET ENGINEERING COLLEGE
(Approved by AICTE, New Delhi Accredited by NAAC Affiliated to JNTUK, Kakinada.)

Rajahmahendravaram E.G Dist,
ANDHRA PRADESH-533101.

DEPARTMENT OF CIVIL ENGINEERING



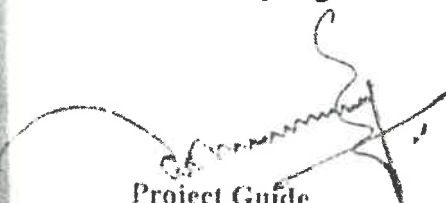
GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.gietec.ac.in

CERTIFICATE


This is to certify that this work entitled "A STUDY ON STRENGTH PROPERTIES OF PARTIALLY REPLACED RED MUD SILICA FUME BLENDED M₂₀ GRADE CONCRETE " is being submitted for the partial Fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** at **GIET Engineering College RAJAHMAHENDRAVARAM**, is a bona-fide work carried by **S. Abu Bakar Siddiqui (18T91A0112), K. Suresh (18T91A0108), K. Ch. Aravind (19T95A0105), M. Lavanya (19T95A0107)** under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirements of the university.

The result embodied in this project have not been submitted to any other institute for the award of any degree.


Project Guide


Head of The Department


External Examiner


Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



GIET ENGINEERING COLLEGE
(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada.)

Rajamahendravaram 533101, E.G Dt, AP
DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that following students has satisfactorily completed and delivered a project seminar report entitled "PREDICTION OF SETTING AND STRENGTH CHARACTERSTIC OF BINARY BLENDED GEOPOLYMER MORTAR" submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of engineering in *CIVIL ENGINEERING* at *GIET Engineering RAJAHMAHENDRAVARAM*.

CHEEKATLA JAGA LALITHA DEVI	18T91A0103
KANDREGULA SAI BHAVANI	18T91A0107
OLETI SATISH VARMA	18T91A0110
ANUMOLU KUMARI	19T95A0101
BASSA VEERABABU	19T95A0102

During the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of the university. The result embodied in this thesis have not been submitted to any other university or institute for the award of any degree.

Guide


G.PREMASWATHI

Head of the Department


E.T.CHAKRAPANI


External Examiner


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 201.

GIET ENGINEERING COLLEGE

(Approved by AICTE, New Delhi Accredited by NAAC Affiliated to

JNTUK, Kakinada.)

Rajahmendravaram 533101, E.G Dist.,

ANDHRA PRADESH



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.gietec.ac.in

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

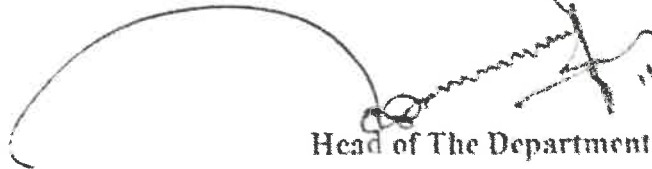
This is to certify that this work entitled "INFLUENCE OF MINERAL ADMIXTURE PROPORTION ON STRENGTH PROPERTIES OF GEOPOLYMER CONCRETE" is being submitted for the partial Fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** at **GIET Engineering College RAJAHMAHENDRAVARAM**, is a bona-fide work carried by **CH.LOKESWARI (18T91A0104)**, **B.V.S.PHANI VARUN (18T91A0102)**, **B.ACHUYH (18T91A0101)**, **V.CHAKRAVATHI (18T91A0114)**, **M.NAGAKUMARI (19T95A0106)** under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirements of the university.

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



Project Guide

A.M.N.KASHYAP



Head of The Department

E.T.CHAKRAPANI



External Examiner



Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge Park
RAJAHMUNDRY-533101

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge city, Rajahmundry -533296

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "IOT BASED DROWSY DETECTION DEVICE FOR DRIVER'S PROTECTION" is being submitted for partial fulfilment of **BACHELOR OF TECHNOLOGY** in **Electronics and Communication Engineering** to **GIET ENGINEERING COLLEGE**, Rajahmundry, A.P. affiliated to the JNTUK, Kakinada, is Bonafide work done by G. RAJU bearing Roll No 18T91A0425, G. RAJESH bearing Roll No:18T91A0425, CH. BALAJI bearing Roll No:18T91A0414, D. SAI KRISHNA bearing Roll No:18T91A0420, under our guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.

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


Dr. B. JAGADEESH, M. Tech, Ph. D

Project Guide

Department of ECE


Dr. B. JAGADEESH, M. Tech, Ph. D

Head of the Department

Department of ECE


External Examiner


Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge city, Rajahmundry -533296

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled " IOT BASED AUTOMATIC VEHICLE ACCIDENT DETECTION AND RESCUE SYSTEM" is being submitted for partial fulfilment of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** to **GIET ENGINEERING COLLEGE**, Rajahmundry, A.P. affiliated to the J.N.T.U, Kakinada, is Bonafied work done by G.M.L. SAHITHI bearing Roll No:18T91A0423 ,E.V.S.ROHITH bearing Roll No: 18T91A0421, K.V. SHIVANI bearing Roll No: 18T91A0447 ,B .RAJESH KUMAR bearing Roll No: 18T91A0408, under our guidance during the academic year 2021- 2022 and it has been found suitable for acceptance according to the requirement of University.

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

Mr. T.SASIBHUSHANA RAO, M.Tech

Project Guide,

Department of ECE

Dr. B. JAGADEESH, M.Tech, Ph. D

Head of the Department,

Department of ECE

External Examiner

Principal
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GIET ENGINEERING COLLEGE

NH-16, Chaitanya knowledge city, Rajahmundry-533294.


DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING




CERTIFICATE

This is to certify that the project work entitled "SECURING DATA THROUGH STEGANOGRAPHY AND SECRET SHARING SCHEMES" is being submitted for partial fulfilment of BACHELOR OF TECHNOLOGY in Electronics and Communication Engineering to GIET ENGINEERING COLLEGE, Rajahmundry, A.P. affiliated to the JNTUK, Kakinada, is Bonafede work done by CH. LAVANYA, bearing Roll.No:18T91A0412, K. HARITHA DEVI, bearing Roll No:18T91A0445, G.SHYAMALA, bearing Roll No:18T91A0424, L.JOSHI BHASKAR, bearing Roll No:18T91A0448 under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.

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


G. SRUJANA, M.Tech
Internal Guide,
Department of ECE


Dr. B. JAGADEESH, M.Tech, Ph.D
Head of the Department,
Department of ECE


External Examiner


Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDY-533 296.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya knowledge city, Rajahmundry-533296.


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING




CERTIFICATE

This is to certify that the project work entitled "SCROLLING LED DISPLAY BOARD USING BLUETOOTH" is being submitted for partial fulfilment of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to GIET ENGINEERING COLLEGE, Rajahmundry, A.P. affiliated to the JNTUK, Kakinada, is Bonafede work done by A. GANGA BHAVANI, bearing Roll. No: 18T91A0404, G.V.L. DEEPTHI, bearing Roll No:18MU1A0401, B. NAVEEN KRISHNA, bearing Roll No:18T91A0406, under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of university.

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


Mr. P.DARWIN, M.Tech
Internal Guide,
Department of ECE


Dr. B. JAGADEESH, Ph.D
Head of the Department,
Department of ECE


External Examiner


Principal
GIET ENGINEERING COLLEGE,
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GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge city, Rajahmundry -533296

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "IOT BASED AIR AND NOISE POLLUTION MONITORING SYSTEM" is being submitted for partial fulfilment of **BACHELOR OF TECHNOLOGY** in **Electronics and Communication Engineering** to **GIET ENGINEERING COLLEGE**, Rajahmundry, A.P. affiliated to the JNTUK, Kakinada, is Bonafede work done by J.YASASWINI bearing Roll No 18T91A0433, G.SRINIJA bearing Roll No:18T91A0431, K.MAHALSHMI bearing Roll No:18T91A0439, G.SAI MOULI bearing Roll No:18T91A0430, under our guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.

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


P.SIVA KRISHNA, M.Tech, M.B.A

Project Guide


Department of ECE


Dr. B. JAGADEESH, M. Tech, Ph. D

Head of the Department

Department of ECE


External Examiner


Principal
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RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge City, Rajahmundry-533294.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "DIGITAL NOTICE BOARD USING LCD DISPLAY" is being submitted for partial fulfillment of BACHELOR OF TECHNOLOGY in Electronics and Communication Engineering to GIET ENGINEERING COLLEGE, Rajahmundry, A.P. affiliated to the JNTUK, Kakinada, is Bonafide work done by NAME:K.AKHILA, bearing RollNo:18T91A0436,G.ANUSHA, bearing RollNo:18T91A0422, CH.VEERABHADRACHARYULU, bearingRollNo:18T91A0413, K.RAMBABU, bearing Roll No:-18T91A0442 under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.

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

V.V. Subbaraya Sastri

Mr.V.V SUBBARAYA SAS TRI, M.Tech
Internal Guide,
Department of ECE

B. Jagadeesh
Dr. B. JAGADEESH, Ph.D
Head of the Department,
Department of ECE

[Signature]
External Examiner

[Signature]
Principal
GIET ENGINEERING COLLEGE,
Nri-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge city, Rajahmundry -533296


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING




CERTIFICATE


This is to certify that the project work entitled " IOT BASED INTELLIGENT TRAFFIC LIGHT CONTROL SYSTEM FOR EMERGENCY VEHICLE CLEARANCE " is being submitted for partial fulfilment of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to GIET ENGINEERING COLLEGE, Rajahmundry, A.P. affiliated to the J.N.T.U, Kakinada, is Bonafied work done by B. Hemanth Bearing Roll No: 18T91A0407, G. Gopi Bearing Roll No: 18T91A0426, Abhishek Kumar singh Bearing Roll No: 18T91A0401, B. Siva Sai Varma Bearing Roll No: 18T91A0410, under our guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.

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


Mrs. V. LAVANYA, M.Tech
Project Guide,
Department of ECE


Dr. B. JAGADEESH, M.Tech, Ph. D
Head of the Department,
Department of ECE


External Examiner


Principal
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RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City, Rajahmundry-533 296.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING



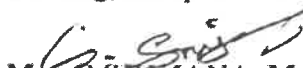
CERTIFICATE


This is to certify that the project titled "DIGITAL NOTICE BOARD USING MATRIX LED CONTROLLED VIA MOBILE APP" is being submitted by for the partial fulfillment of the requirements for social relevant project of the degree of Bachelor of Technology in ELECTRONICS & COMMUNICATION ENGINEERING at GIET ENGINEERING COLLEGE. RAJAMAHENDRAVARAM, is a bonafide carried by

P. MAHESH	-	18T91A0472
N. K. ANNAPURNA	-	18T91A0464
N. DEEPTHI	-	18T91A0463
M. SRIRAM	-	18T91A0454
M.S.M. RAJA	-	18T91A0457


During the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of the university.

We here by declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment.


Mrs. G. SRIJANA, M.Tech
Internal Guide,
Department of ECE


Dr. B. JAGADEESH, M.Tech, Ph.D
Head of the Department,
Department of ECE


External Examiner


Principal
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RAJAHMUNDRIY-533 296.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge City, Rajahmundry-533296

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "DRINKING WATER MANAGEMENT USING IOT" is being submitted for partial fulfillment of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to GIET ENGINEERING COLLEGE, RAJAHMUNDRY, A.P. affiliated to the JNTUK, KAKINADA, is Bonafide work done by D. VISWA SAI TEJA bearing RollNo:18T91A0418, J. BHAVANA bearing Roll No:18T91A0434, K. JAYA SAI PRAKSH bearing Roll No:18T91A0441 AND G. JAI CHAND bearing Roll No:18T91A0432 under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.

This result embodied in the project report has not been submitted to any other university or institute for the award of degree.

S.N.V. Vijaya Lakshmi
S.N.V. VIJAYA LAKSHMI, M.Tech
Internal Guide,
Department of ECE

B. Jagadeesh
Dr. B. JAGADEESH, Ph.D
Head of the Department,
Department of ECE

[Signature]
EXTERNAL EXAMINER

[Signature]
Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya knowledge city, Rajahmundry-533296.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "WATER MANAGEMENT USING SENSOR" is being submitted for partial fulfilment of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to GIET ENGINEERING COLLEGE, Rajahmundry, A.P. affiliated to the JNTUK, Kakinada, is Bonafede work done by L.RENUKA BHAGYA LAKSHMI, bearing Roll No : 18T91A0449, G.RATNA GOWREESHA, bearing Roll No:18T91A0429, G.ANNAMANI, bearing Roll No:18T91A0428, K.SOMA SEKHAR, bearing Roll No:18T91A0435 under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of university.

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

Mr.A.G.V. KARTHIK RAJU, M.Tech
Internal Guide,
Department of ECE

Dr. B. JAGADEESH, Ph.D
Head of the Department,
Department of ECE

External Examiner

Principal
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RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge City, Rajahmundry-533294

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "DRINKING AND WASTE WATER MANAGEMENT IOT" is being submitted for partial fulfillment of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to GIET ENGINEERING COLLEGE, RAJAHMUNDRY, A.P. affiliated to the JNTUK, KAKINADA, is Bonafide work done by MS. R. DURGA DEVI bearing Roll No: 19T95A0409, MS. P. MADHAVI LATHA bearing Roll No: 19T95A0405, MR. CH. SAI PRASANTH, bearing Roll No: 19T95A0402, MS. T. YASASWINI bearing Roll No: 18T91A0491, under my guidance during the academic year 2018-2022 and it has been found suitable for acceptance according to the requirement of University.

This result embodied in the project report has not been submitted to any other university or institute for the award of degree.

Mr. A.G.V. Karthik Raju, M.Tech
Assistant Professor

Dr. B. JAGADEESH, Ph.D.
Head of the Department, Dept of ECE

EXTERNAL EXAMINER

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533294.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge City, Rajahmundry-533296.


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING




CERTIFICATE

This is to certify that the project work entitled "SINGLE BIT ARITHMETIC LOGIC UNIT DESIGN USING REVERSIBLE GATES" is being submitted for partial fulfillment of BACHELOR OF TECHNOLOGY in Electronics and Communication Engineering to GIET ENGINEERING COLLEGE, Rajahmundry, A.P. affiliated to the JNTUK, Kakinada, is Bonafede work done by D.SAILAJA, bearing Roll. No:18T91A0416, CH.MOUNIKA SUCHITRA bearing Roll No:18T91A0411, K.DURGA SHYAM SIVA PRASAD, bearing Roll No:18T91A0443, K.SRIDHAR, bearing Roll No:18T91A0444 under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.

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


Mr.A.G.V.KARTHIK RAJU, M.Tech
Internal Guide,
Department of ECE


Dr.B.JAGADEESH, Ph.D
Head of the Department,
Department of ECE


External Examiner


Principal
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RAJAHMUNDY-533 296.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge City, Rajahmundry-533296
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING




Accredited by NAAC

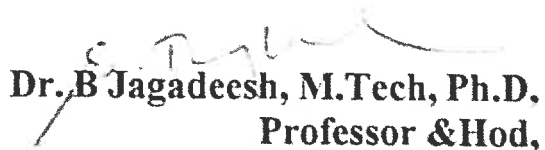
CERTIFICATE

This is to certify that the project work entitled "VEHICLE THEFT INTEMATIONOVERCLOUD AND REMOTE CONTROL OF ITS ENGINE "is being submitted for partial fulfilment of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING IN GIET ENGINEERING COLLEGE, RAJAHMUNDY, A.P. affiliated to the JNTUK, KAKINADA, is Bonafede work done by T. Pushpa Latha - 18T91A0489, N. Deepthika Devi - 18T91A0460, P. Sandhya Rani - 18T91A0469, M. Sai Kumar - 19T95A0404 under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of university.

This result embodied in the project report has not been submitted to any other university or institute for the award of degree.



Mr. P. Siva Krishna, M. Tech,
Assistant Professor.



Dr. B Jagadeesh, M.Tech, Ph.D.,
Professor & Hod,
Department of ECE



EXTERNAL EXAMINER



Principal
GIET ENGINEERING COLLEGE,
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RAJAHMUNDY-533 296.



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.gietec.ac.in

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge City, Rajahmundry-533296.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "ARTIFICIAL INTELLIGENCE TOOL FOR CHEST X-RAY IMAGE CLASSIFICATION" is being submitted for partial fulfilment of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to GIET Engineering College, Rajahmundry, A.P. affiliated to the JNTUK, Kakinada, is Bonafede work done by T. Satish, bearing Roll. No: 18T91A0488, P.Sai Durga Prasad, bearing Roll No:18T91A0475, Y.Anand Durga Sagar, bearing Roll No: 18T91A0487, T.Gireesh Naidu, bearing Roll No:18T91A0492 under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.

Mr. P. SIVA KRISHNA, M. Tech

Project Guide,

Department of ECE.

Dr. B. JAGADEESH, M.Tech, Ph.D

Head of Department,

Department of ECE.

External Examiner

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

NH-16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDRY (A.P)

DEPARTMENT
OF
ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project entitled "DRINKING AND WASTE WATER MANAGEMENT USING SENSORS" is a project work carried by P. SUMA DEVI 19T95A0406, P. KAMESWARI 19T95A0407, B. JAPHANYA PRASANNA KUMAR 19T95A0401, at the college for the award degree of the bachelor of technology in ELECTRONICS AND COMMUNICATION ENGINEERING from GIET ENGINEERING COLLEGE during the academic year of 2021-2022 and it has been found suitable for acceptance according to the requirement of university.

We here by declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment.

B. Venkatesh

Mr. B. VENKATESH, M. Tech
Assistant Professor
Project guide

B. Jagadeesh
Dr. B. JAGADEESH, M. Tech, Ph. D
Professor, Head of the Department,
Department of ECE

[Signature]
EXTERNAL EXAMINER

[Signature]
Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City
RAJAHMUNDRY

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge City, Rajahmundry-533294



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.gietec.ac.in

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work titled **WIRELESS LCD NOTICE BOARD USING CONTROLLER** is being submitted by for the partial fulfilment of the requirements for Social Relevant Project of the degree of Bachelor of Technology in **ELECTRONICS & COMMUNICATION ENGINEERING** at GIET ENGINEERING COLLEGE, RAJAHMUNDRAVARAM, is a bonafide carried by

R. Avinash	-	19T95A0408
P. Sri Devi	-	18T91A0474
S. S. S. Naga Lakshmi	-	18T91A0477
P. Sai Sravyesh	-	18T91A0470

During the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of the university. The result embodied in this thesis has not been submitted to other university or institute for the award of any degree.

Mr. T. Sasibhushana rao, M.Tech,
Assistant Professor,
Department of ECE.

Dr. Jagadeesh Bodapati, M.Tech, Ph.D
Head of the Department,
Department of ECE

External Examiner

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRAVARAM-533294.

GIET ENGINEERING COLLEGE

NII-16, Chaitanya Knowledge City, Rajahmundry-533294


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "IOT MINING TRACKING AND WORKER SAFETY HELMET" is being submitted for partial fulfillment of BACHELOR OF TECHNOLOGY in Electronics and Communication Engineering to GIET ENGINEERING COLLEGE, Rajahmundry, A.P. affiliated to the JNTUK, Kakinada, is Bonafide work done by NAME: K. NAGA HARITHA, bearing Roll.No:19T95A0403, S.ALEKHYA, bearing Roll.No:19T95A0410, S.NAGESWARARAO, bearing Roll.No:18T91A0483, S.VENKATA VIGNESH, bearing Roll.No:18T91A0484, under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of university.

This result embodied in the project report has not been submitted to any other university or institute for the award of degree.



Mr. T. Sasibhushana Rao, M.Tech

Internal Guide,

Department of ECE



Dr. Jagadeesh Bodapati, Ph.D

Head of the Department,

Department of ECE



External Examiner



Principal
GIET ENGINEERING COLLEGE,
Nri-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

[Affiliated to JNTUK, Kakinada, [Accredited by NACC]]

NH-16, Chaitanya Knowledge City, Rajahmundry-533296, A.P.

JUNE-2022

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project entitled “VEHICLE TRACKING BASED ON GPS AND GSM SENSORS” has been submitted by S. ROSHINI (18T91A0479), Y. DEVIKA (18T91A0480), D. MOUNIKA (18T91A0455), M. SUREKHA (18T91A0451) in the partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING**, is record of Bonafide work carried out by them under my guidance and supervision. The results embodied in this project have not been submitted to any other university or institution for the award of any degree or diploma.

INTERNAL GUIDE

Mr.B.Venkatesh, M.Tech

Assistant Professor

HEAD OF THE DEPARTMENT

Dr.B.Jagadeesh, M.tech, Ph.D

Professor


External Examiner



Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.


GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge city, Rajahmundry -533296
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "PIR BASED HOME AUTOMATION" is being submitted for partial fulfilment of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** to GIET ENGINEERING COLLEGE, Rajahmundry, Andhra Pradesh affiliated to the JNTU, Kakinada, is Bonafede work done by S.Surya prasanna bearing Roll No 18T91A0481, M.S.Ch.Pavani bearing Roll No 18T91A0456, P.Naga Sai Teja bearing Roll No 18T91A0468, M.Mourya Reddy bearing Roll No 18T91A0453 under the guidance of Ms.Tp.Tejaswi, M.Tech during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University. These results embodied in the project report have not been submitted to any other university or institute for the award of a degree.


Ms. Tp. Tejaswi, M.Tech,
Associate Professor,
Project Guide.


Dr. B. JAGADEESH, M.Tech, Ph.D
Professor, Head of The Department,
Department of ECE.


EXTERNAL EXAMINER


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY - 533 296.



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.gietec.ac.in


GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge City, Rajahmundry-533 296.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "IMPROVED CRYPTOSYSTEM FOR SECURE IMAGE ON IOT DEVICES" is being submitted for partial fulfilment of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to GIET engineering College, Rajahmundry, A.P affiliated to the JNTUK, Kakinada, is Bonafede work done by S. Rakesh, bearing Roll.No: 18T91A0482, N. Yamini Sri Latha, bearing Roll no:18T91A0459, G. Sai Samba Siva, bearing Roll No:19T95A0411, P. Sri Sai Krishna bearing Roll No:18T91A0466 under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.


G. SRUJANA, M.Tech

Project Guide,

Department of ECE.


Dr. B. JAGADEESH, M.Tech, Ph.D

Head Of Department,

Department of ECE.


External Examiner


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge city, Rajahmundry -533296


DEPARTMENT OF ELECTRONICS AND COMMUNICATION


ENGINEERING




CERTIFICATE

This is to certify that the project work entitled "IOT BASED AUTOMATED HORTICULTURE SYSTEM FOR FARMERS " is being submitted for partial fulfilment of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to GIET ENGINEERING COLLEGE, Rajahmundry,A.P. affiliated to the JNTUK, Kakinada, is Bonafede work done by Name: N.Chandrasekhar bearing Roll No 18T91A0461, M.Sahithi bearing Roll No:18T91A0452, SD.Siddiq Hussain bearing Roll No:18T91A0486, P.Siddharth bearing Roll No:18T91A0471, under the guidance of Mr.P.Darwin,M.Tech during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of University.These results embodied in the project report have not been submitted to any other university or institute for the award of a degree.


Mr.P.DARWIN, M.Tech,
Associate Professor,
Project Guide.


Dr. B.JAGADEESH, M.Tech, Ph.D
Professor,Head of The Department,
Department of ECE.


EXTERNAL EXAMINER


Principal
GIET ENGINEERING COLLEGE,
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GIET ENGINEERING COLLEGE
CHAITANYA KNOWLEDGE CITY, RAJAMAHENDRAVARAM 522396
DEPARTMENT OF MECHANICAL ENGINEERING

BONAFIDE CERTIFICATE

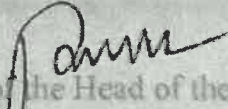
This is to certify that the Project report entitled "PREPARATION AND PROPERTIES EVALUATION OF VEGETABLE OIL BASED CUTTING FLUIDS" is a bonafide work carried out by

E. SURYA VAMSI	19T95A0322
B. SRINIVAS	19T95A0302
P. MANIVEERAKUMAR	19T95A0325
SK. IBRAHEEM	19T95A0317
V. WILLIAM ROBINS	18T91A0318

During the academic year 2021-22 is submitted to the faculty of Mechanical Engineering, in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING from GIET Engineering College, Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada.

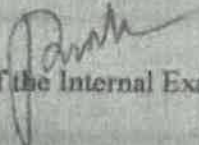

Signature of the Supervisor


Mr. K. V. G. PRAVEEN M.Tech
Assistant professor,
Department of Mechanical Engineering,
GIET ENGINEERING COLLEGE,
Rajamahendravaram - 533296.

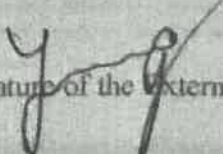

Signature of the Head of the Department

Mr. P. POORNA MOHAN M.Tech (Ph. D)
Associate Professor & HOD,
Department of Mechanical Engineering,
GIET ENGINEERING COLLEGE,
Rajamahendravaram - 533296.

External Viva-Voice held on: 29/06/2022


Signature of the Internal Examiner


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.


Signature of the External Examiner



GIET ENGINEERING COLLEGE

(Affiliated to JNTU KAKINADA, Approved by AICTE, New Delhi, Accredited by NAAC)
Chaitanya Knowledge City, NH-16, Rajahmundry-533296, A.P.

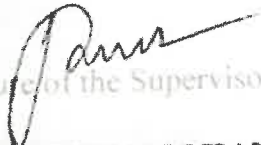
BONAFIDE CERTIFICATE

This is to certify that the project report entitled "**Preparation of optimization on Dynamic Mechanical Analysis and Mechanical Properties with Mesocarp reinforced Polymer Composite by applying Response Surface Methodology**" is a bonafide record of the project work done by

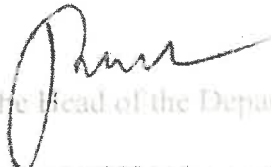
V. SAIKUMAR	(19T95A0319)
K. V.C KALI PRASAD	(19T95A0310)
P. HARI KUMAR	(19T95A0312)
P. RAM KUMAR	(19T95A0314)
J.P. KIRAN BHASKAR	(18T95A0313)

During the academic year 2021-22 is submitted to the faculty of Mechanical Engineering, in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** from GIET Engineering College. Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada.

Signature of the Supervisor

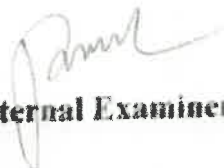

Mr. P. POORNAMOCHAN M. TECH (P.L.D)
Associate professor & HOD,
Department of Mechanical Engineering,
GIET ENGINEERING COLLEGE,
Rajamahendravaram - 533296.

Signature of the Head of the Department


Mr. P. POORNAMOCHAN M. TECH (P.L.D)
Head of Department,
Department of Mechanical Engineering,
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Rajamahendravaram - 533296.

External Viva-Voce conducted on 29/06/2022

Internal Examiner



Principal


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External Examiner



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DEPARTMENT OF MECHANICAL ENGINEERING




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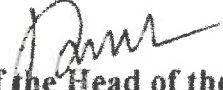
BONAFIDE CERTIFICATE

This is to certify that the Project report entitled "EXPERIMENTAL EVALUATION FOR THE PERFORMANCE OF C.I ENGINE BY DUAL FUEL OPERATION" is a bonafide work carried out By,


A. APPLAKONDA	19T95A0332
B.Y.S. SANTOSH	18T91A0301
P. SATISH	19T95A0313
P. VENKATESH	18T91A0310



During the academic year 2020-21 is submitted to the faculty of Mechanical Engineering, in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING from GIET Engineering College, Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada.


Signature of the Supervisor
Mr. K. SAI SASIDHAR M Tech
Assistant professor,
Department of Mechanical Engineering,
Giet Engineering College,
Rajamahendravaram - 533296


Signature of the Head of the Department
Mr. P. POORNA MOHAN M Tech (Ph.D.)
Associate Professor & HOD,
Department of Mechanical Engineering,
Giet Engineering College,
Rajamahendravaram - 533296

External Viva-Voice held on: 29/06/22


Signature of the Internal Examiner


Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City
RAJAMUNDY-533 296,

Signature of the External Examiner

GIET ENGINEERING COLLEGE

NH-16, Chaitanya Knowledge city, Rajahmundry -533296

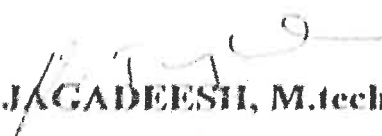
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING




CERTIFICATE

This is to certify that the project work entitled "IOT BASED AUTOMATIC SMART HOME THEFT CONTROL SYSTEM" is being submitted for partial fulfillment of **BACHELOR OF TECHNOLOGY** in **Electronics and Communication Engineering, GIET ENGINEERING COLLEGE, Rajahmundry , A.P.** affiliated to the JNTUK, Kakinada, is Bonafede work done by **A.SHANMITHIA(18T91A0402), D.VEEERABABU(18T91A0419), K.KAVYA (18T91A0437), T.ANUSHIA(18T91A0415)** under my guidance during the academic year 2021- 2022 and it has been found suitable for acceptance according to the requirement of university.

This result embodied in the project report have not been submitted to any other university or institute for the award of degree


Dr.B.J/GAIDEESH, M.tech., Ph. D
Internal Guide, Head of the Department
Department of ECE


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDY-533 296.


External Examiner

GIET ENGINEERING COLLEGE

CHAITANYA KNOWLEDGE CITY, RAJAMAHENDRAVARAM - 522396

DEPARTMENT OF MECHANICAL ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the Project report entitled " INCREASING THE CO-EFFICIENT OF PERFORMANCE OF A VAPOR COMPRESSION REFRIGERATION SYSTEM USING THE NANO REFRIGERNT (R134a+AL₂O₃) " is a bonafide record of work of the following candidates who carried out project work under my supervision during 2022.

P. JAYA SYAM	19T95A0326
CH . SUDHAKAR	19T95A0305
G . SATISH	19T95A0330
Y . VARA PRASAD	19T95A0323
S . SAI KIRAN	18T91A0313

Dissertation submitted in partial fulfilment of the requirement for the award of degree of

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING JUNE 2022

Mr. K. SAI SASIDHAR M.Tech

Project guide

Mr. P POORNA MOHAN M. Tech, (Ph.D)

Head of the department

Certified that the candidate examination the viva-voice examination held on... 29/06/2022

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

GIET ENGINEERING COLLEGE
CHAITANYA KNOWLEDGE CITY, RAJAMAHENDRAVARAM – 522396

DEPARTMENT OF MECHANICAL ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the Project report entitled "DESIGN AND FABRICATION VEGETABLE CUTTING MACHINE" is a bonafide record of work of the following candidates who carried out project work under my supervision during 2022.

T. BALAJI	19T95A0318
K. MAHESH	18T91A0306
K. TARUN	19T95A0311
M. GOVINDA	19T95A0324
T. PAVAN BHASKAR	17T91A0316

Dissertation submitted in partial fulfilment of the requirement for the award of degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING JUNE 2022.


Signature of the Supervisor


P. VIPIN RAJ M. Tech

Assistant professor,

Department of Mechanical Engineering,

GIET ENGINEERING COLLEGE,

Rajamahendravaram - 533296.


Signature of the Head of the Department

Mr. P. POORNAMOCHAN M. TECH (Ph.D)

Head of the Department,

Department of Mechanical Engineering,

GIET ENGINEERING COLLEGE,

Rajamahendravaram - 533296.

External Viva-Voce conducted on 29/06/2022


Internal Examiner


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External Examiner



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Chaitanya Knowledge City, NH-16, Rajahmundry-533296, A.P.

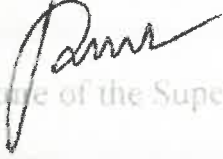
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This is to certify that the project report entitled "**Preparation of optimization on Dynamic Mechanical Analysis and Mechanical Properties with Mesocarp reinforced Polymer Composite by applying Response Surface Methodology**" is a bonafide record of the project work done by

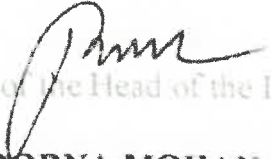
P. RAJA	(19T95A0327)
E. RAJU	(19T95A0306)
G. KIRAN	(19T95A0328)
E. MOHAN VAMSI	(18T91A0302)
G. VENKANNA BABU	(18T91A0305)

During the academic year 2021-22 is submitted to the faculty of Mechanical Engineering, in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** from GIET Engineering College, Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada.

Signature of the Supervisor



Mr. P. POORNA MOHAN M.TECH (Ph.D)
Associate professor & HOD,
Department of Mechanical Engineering,
GIET ENGINEERING COLLEGE,
Rajamahendravaram - 533296.

Signature of the Head of the Department


Mr. P. POORNA MOHAN M.TECH (Ph.D)
Head of Department,
Department of Mechanical Engineering,
GIET ENGINEERING COLLEGE,
Rajamahendravaram - 533296.

External Viva-Voce conducted on 29/06/22


Internal Examiner


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RAJAHMUNDRY-533 296.


External Examiner



GIET ENGINEERING COLLEGE

(Affiliated to JNTUK KAKINADA, Approved by AICTE, New Delhi)

Chaitanya Knowledge City, NH-16, Rajahmundry-533296, A.P.

BONAFIDE CERTIFICATE

This is to certify that the project report entitled "Agglomeration study in A Microchannel Heat Sink with CuO and Al₂O₃ Nanofluids" is a bonafide record of the project work done by "BAIRI DEVI PRASAD (19T95A0301), SANGINIDI UDAY KIRAN (19T95A0316), GEDDAM ANAND PAUL (19T95A0307), BEJJIPARAPU RAMBABU (19T95A0303), PILLA KIRAN KUMAR (18T91A0308)" During the academic year 2021-22 is submitted to the faculty of Mechanical Engineering, in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** from GIET Engineering College. Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada.

Signature of the Supervisor

Mr. Pinjarla PoornaMohan M. TECH(PH.D.)

Associate Professor & HOD

Department of Mechanical Engineering

GIET, Rajamahendravaram-533296

DATE:

Signature of the Head of the Department

Mr. Pinjarla PoornaMohan M. TECH(PH.D.)

HEAD OF THE DEPARTMENT

External Viva-Voce conducted on

29/06/2022

Internal Examiner

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

External Examiner



GIET ENGINEERING COLLEGE

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Chaitanya Knowledge City, NH-16, Rajahmundry-533296, A.P.

BONAFIDE CERTIFICATE

This is to certify that the project report entitled "FABRICATION OF AQUA MUFFLER"
is a bonafide record of the project work done by

G. NARASIMHA MURTHY	19T95A0309
G. SATYANANDAM	18T91A0303
M. BHANU KIRAN	18T91A0307
T. CHANDRA SEK HAR	19T95A0321
P. SAI AKHILESH	18T91A0319

During the academic year 2021-22 is submitted to the faculty of Mechanical Engineering, in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** from GIET Engineering College, Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada.

Signature of the Supervisor

Mr. V. AVINASH RAMANA M. TECH.,
Assistant professor,
Department of Mechanical Engineering,
GIET ENGINEERING COLLEGE,
Rajamahendravaram - 533296.

Signature of the Head of the Department

Mr. P. POORNAMOCHAN M. TECH (Ph.D.)
Head of Department,
Department of Mechanical Engineering,
GIET ENGINEERING COLLEGE,
Rajamahendravaram - 533296.

External Viva-Voce conducted on 29/06/22

Internal Examiner

Principal

External Examiner

GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City
RAJAHMUNDRY-533296.

GIET ENGINEERING COLLEGE

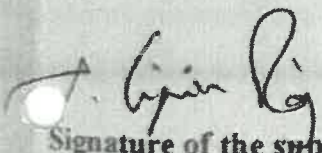
CHAITANYAKNOWLEDGECITY, RAJAMAHENDRAVARAM-533296

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

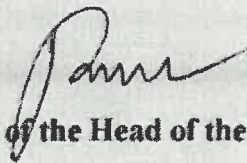
This is to certify that the Project report entitled “TRIO & QUAD MATERIAL ANALYSIS OF CROWN & PINION GEAR -DIFFERENTIAL GEAR” is a bonafide work carried out by U. DURGA VEERA PRASAD (18T91A0316), S. GOWTAM SAI VEERAJU (18T91A0314), B. PAVAN KALYAN (19T95A0334), G. SAGAR SWAMY (19T95A0308), G. MANI MAHESH (18T91A0304) during the academic year 2021-22 is submitted to the faculty of Mechanical Engineering, in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING from GIET Engineering College, Affiliated to Jawaharlal Nehru Technology University Kakinada.



Signature of the supervisor

P. VIPIN RAJ (M. TECH)

Assistant Professor,
Department of Mechanical Engineering.

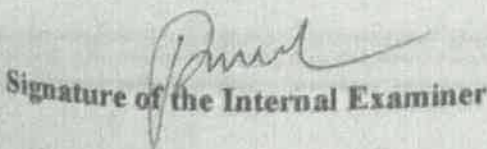


Signature of the Head of the Department

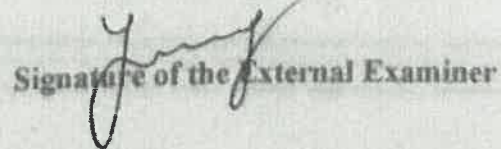
P. POORNA MOHAN (P.H.D.)

Professor & HOD
Department of Mechanical Engineering.


External Viva-Voice held on: 29/06/2022



Signature of the Internal Examiner



Signature of the External Examiner



Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDY-533 296.



GIET ENGINEERING COLLEGE

(Affiliated to JNTU KAKINADA, Approved by AICTE, New Delhi. Accredited by NAAC)
Chaitanya Knowledge City, NH-16, Rajahmundry-533296, A P

BONAFIDE CERTIFICATE

This is to certify that the project report entitled "OPTIMIZATION OF MINIMUM QUANTITY LUBRICATION PARAMETERS IN TURNING OF AISI 1018 STEEL" is a bonafide record of the project work done by

R. MANIKANTA	19T95A0315
B. MOHAN SIVA SAI KRISHNA	19T95A0333
K. AJAY SAI	19T95A0320
B. SAITEJA	19T95A0304
S.S.G. VAMSHI KRISHNA	18T91A0315

During the academic year 2021-22 is submitted to the faculty of Mechanical Engineering, in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** from GIET Engineering College, Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada.



Signature of the Supervisor

Mr. K. V G PRAVEEN (MTech)
Assistant professor,
Department of Mechanical Engineering,
GIET ENGINEERING COLLEGE,
Rajamahendravaram - 533296.



Signature of the Head of the Department

Mr. P. POORNA MOHAN MTech (Ph. D)
Associate Professor & HOD,
Department of Mechanical Engineering,
GIET ENGINEERING COLLEGE,
Rajamahendravaram - 533296

External Viva-Voce conducted on 29/6/22


Internal Examiner


Principal
GIET ENGINEERING COLLEGE
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RAJAHMUNDRY-533 296.


External Examiner



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.giet.ac.in

(Affiliated to JNTUK, Approved by AICTE, New Delhi)
Rajahmundry, East Godavari District, Andhra Pradesh - 533296

BONAFIDE CERTIFICATE

This is to certify that the project work entitled, "Advanced Foot Step Power Generation", is a Bonafide record of project work of the following candidates, who carried out the project work during 2021-2022

CH. Venkata Lakshmi	19T95A0215
M.S.V.Nagendra	19T95A0212
G. Samuel	19T95A0201
CH. Anusha	18T91A0201

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

In

ELECTRICAL AND ELECTRONICS ENGINEERING

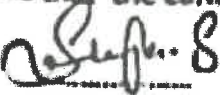

INTERNAL GUIDE

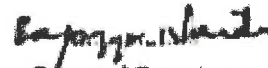
Mr.G.Venkateswara Rao


HEAD OF THE DEPARTMENT

Mr.B.Vamsi Krishna
Head of the Department
Electrical & Electronics Engineering
GIET ENGINEERING COLLEGE

Certified that the candidate was examined in the viva-voce examination on 09.07.2022 at Chaitanya Knowledge City, NH-16, RAJAHMUNDRY-533 296.


Internal Examiner


External Examiner


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.giet.ac.in

(Affiliated to JNTUK, Approved by AICTE, New Delhi)

Rajahmundry, East Godavari District, Andhra Pradesh - 533296

BONAFIDE CERTIFICATE

This is to certify that the project work entitled, "Prison Break Alert using IoT", is a Bonafide record of project work of the following candidates, who carried out the project work during 2021-2022

N. Satya Valbhav	19T95A0206
P. Ravi	19T95A0213
Y. Nagendra Kumar	19T95A0214
K. Manikanta	18T91A0203
K. Mohan Ganesh	19T95A0202

Dissertation submitted in partial fulfillment of the requirements for the award of the

degree of

BACHELOR OF TECHNOLOGY

In

ELECTRICAL AND ELECTRONICS ENGINEERING



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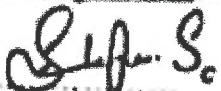
Mr. B. Vamsi Krishna



Head of the Department
ELECTRICAL & ELECTRONICS ENGINEERING
GIET ENGINEERING COLLEGE
Chaitanya Knowledge City,
NH-16, RAJAHMUNDRY-533 296.

Certified that the candidate was examined in the viva-voice examination held on

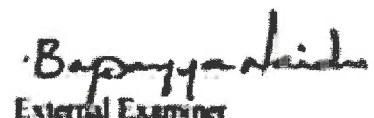
27/12/2022



Internal Examiner



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External Examiner



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Rajahmundry, Andhra Pradesh | www.giet.ac.in

(Affiliated to JNTUK, Approved by AICTE, New Delhi)

Rajahmundry, East Godavari District, Andhra Pradesh -533124

BONAFIDE CERTIFICATE

This is to certify that the project work entitled, "Elliptical Trainer With Variable Electrical Loading And Generation Of Electricity", is a bonafide record of project work of the following candidates, who carried out the project work during 2021-2022.

P.V VSS SURESH 19195A0208

P. PRANAY VENKAT 19195A0223

P. SYAM RAJU 19195A0207

P. SAITEJA 19195A0219

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

in

ELECTRICAL AND ELECTRONICS ENGINEERING

INTERNAL GUIDE

Mr.G. Venkateswara Rao

Head of the Department

HEAD OF THE DEPARTMENT

Mr. B. Venkateswara Rao

Chattanya Knowledge City,

NH-16, RAJAHMUNDRY-533124

Certified that the Candidate was examined in the viva - voice examination held on 02.07.2022

Internal Examiner

Principal

GIET ENGINEERING COLLEGE,
NH-16, Chattanya Knowledge City,
RAJAHMUNDRY-533 296,

External Examiner



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh - www.giet.ac.in

(Affiliated to JNTUK, Approved by AICTE, New Delhi)

Rajahmundry, East Godavari District, Andhra Pradesh - 533296

BONAFIDE CERTIFICATE

This is to certify that the project work entitled, "Microcontroller Based Password Based Control System", is a Bonafide record of project work of the following candidates, who carried out the project work during 2021-2022

Ch.Sekhar	19T95A0211
M.M swamy	19T95A0217
P.Naga Varnhalu	19T95A0221
M.Naga Sivamurayana	19T95A0218

Dissertation submitted in partial fulfillment of the requirements for the award of the

degree of

BACHELOR OF TECHNOLOGY

In

ELECTRICAL AND ELECTRONICS ENGINEERING

INTERNAL GUIDE

Mr. B. Vameli Krishna

Head of the Department

Electrical & Electronics Engineering

GIET ENGINEERING COLLEGE

Chaitanya Knowledge City,

NH-16, RAJAHMUNDY-533 296.

Certified that the candidate was examined in the viva-voce examination held on

02.07.2022

(Internal Examiner)

Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDY-533 296.

(External Examiner)

GIET ENGINEERING COLLEGE

NH-16, Chaitanya knowledge city, Rajahmundry-533294.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "REDUCTION OF POWER AND DELAY IN SHIFT REGISTERS USING MTCMOS TECHNIQUE" is being submitted for partial fulfilment of BACHELOR OF TECHNOLOGY in Electronics and Communication Engineering TO GIET ENGINEERING COLLEGE Rajahmundry, A.P. affiliated to the JNTUK, Kakinada is Bonafade work done by M. KRISHNAJA, bearing Roll. No: 18T91A0450, K. VEERA JHANSI, bearing Roll No: 18T91A0438, V.JAGADEESH bearing Roll No: 18T91A0417, A. SRI HARSHA, bearing Roll No: 18T91A0403 under my guidance during the academic year 2021-2022 and it has been found suitable for acceptance according to the requirement of university.

This result embodied in the project report has not been submitted to any other university or institute for the award of degree.

B. Venkatesh

B.VENKATESH, M.Tech,

Ph.D.Internal Guide,

Department of ECE

[Signature]

Principal

**GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 299.**

[Signature]
Dr. B. JAGADEESH,

Head of Department,

Department of ECE

[Signature]

External Examiner



GIET ENGINEERING COLLEGE

Rajahmundry, Andhra Pradesh | www.giet.ac.in

BONAFIDE CERTIFICATE

This is to certify that the project work entitled, "SMART EFFICIENT AND AUTOMATIC AIR QUALITY MAINTAINANCE FOR AIR CONDITIONED ROOMS", is bonafide work carried out by

G.MANIKANTA	19T95A0216
M.JAYACHANDRA	19T95A0205
K.SOBHAN BAB	19T95A0203
U.VEERABABU	19T95A0210
T.PRASANTH	18T95A0218

During the academic year 2021-2022 in partial fulfillment of requirements for the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING from GIET Engineering College, affiliated to JNTU, Kakinada.

Mr.M.N.Saidulla
PROJECT GUIDE

Mr.B.Vamsi Krishna
HEAD OF THE DEPARTMENT
Head of the Department
Electrical & Electronics Engineering
GIET ENGINEERING COLLEGE
Chaitanya Knowledge City,
NH-16, RAJAHMUNDY-533 296.

Certified that the Candidate was examined in the viva-voice examination held on 21/7/2022

(Internal Examiner)

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDY-533 296.

(External Examiner)



GIET ENGINEERING COLLEGE
Rajahmundry, Andhra Pradesh | www.giatec.ac.in

GIET ENGINEERING COLLEGE
Affiliated to JNTU Kakinada, Approved by AICTE, New Delhi
Rajahmundry, East Godavari District
Andhra Pradesh - 533294

BONAFIDE CERTIFICATE

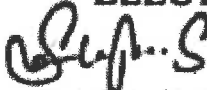
This is to certify that the project report entitled "INDUCTION MOTOR SPEED AND DIRECTION BY USING IR REMOTE" is a bonafide record of work of the following candidates carried out the project under my supervision during 2021- 2022.


P. Shankar	19T95A0209
K. Ratna Bhargavi	19T95A0204
K. Siphora	18T91A0202
J. M. V.S. Sal kumar	19T95A0222
K. Shiva Sandeep	18T95A0208

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of


BACHELOR OF TECHNOLOGY
in

ELECTRICAL AND ELECTRONICS ENGINEERING


Mrs. S. V. Sailaja
Project Guide


Mr. B. Vamsee Krishna
Head of the Department
Head of the Department
Electrical & Electronics Engineering

Certified that the Candidate was examined in the viva-voce examination held on 02.07.2022


Internal Examiner


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDY-533 296.


External Examiner



Dec 25, 2021

Praveen Vetsa

has successfully completed

Crash Course on Python

an online non-credit course authorized by Google and offered through Coursera



Google

Principal
GIET ENGINEERING COLLEGE.
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

**COURSE
CERTIFICATE**



Verify at:
<https://coursera.org/verify/L9MQCT4LC4YQ>

Coursera has confirmed the identity of this individual and their participation in the course.

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS08S24080428

To
NAGALLA VIJAY VENKOJI BABU
DR.NO:203,D-BLOCK,VAJPAI COLONY
DIWANCHERUVU-SRIRAMPURAM ROAD
DIWANCHERUVU
ANDHRA PRADESH - 533102
PH. NO :9121532801



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

NAGALLA VIJAY VENKOJI BABU

for successfully completing the course

Data Analytics with Python

with a consolidated score of **60** %

Online Assignments	22.5/25	Proctored Exam	37.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: **6359**

Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Apr 2022
(12 week course)

Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City
RAJAHMUNDRY-533 296

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No:NPTEL22CS08S24080428

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS08S24080754

To
VETSA NAGA VENKATA PRAVEEN
1-282, I.PANGIDI, RAMALAYAM STREET
1-282, I.PANGIDI, PANCHAYAT OFFICE
KOVVUR
ANDHRA PRADESH - 534342
PH. NO :6302238558



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

VETSA NAGA VENKATA PRAVEEN

for successfully completing the course

Data Analytics with Python

with a consolidated score of **67** %

Online Assignments	23.13/25	Proctored Exam	43.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **6359**

Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Apr 2022
(12 week course)

Prof. Priti Maheshwari

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee

Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City
RAJAHMUNDRY-533 280.



Roll No: NPTEL22CS08S24080754

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS08S14080235

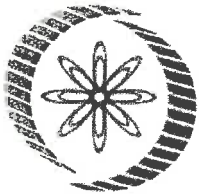
To
RAJ JAIN
9-18-1/2, MANDAVALLI APPARTMENT
GODAVARI BUND ROAD, RAJAHMUNDRY
RAJAHMUNDRY
ANDHRA PRADESH - 533101
PH. NO :9912080418



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

RAJ JAIN

for successfully completing the course

Data Analytics with Python

with a consolidated score of **54** %

Online Assignments	24.06/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **6359**

Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Apr 2022
(12 week course)

Priti Maheshwari

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee

Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City
RAJAHMUNDRY-533 230.



Roll No:NPTEL22CS08S14080235

To validate and check scores: <https://nptel.ac.in/noc>

**INTERNSHIP
CERTIFICATES
2021-22**



CERTIFICATE OF COMPLETION

This Certificate is Presented to
GOLLA PAVAN SATYA SAI

To Commemorate his/her Completion of the Internship Program
from 01 NOV to 15 NOV year 2021


AUTHORIZED SIGNATURE



Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



CERTIFICATE OF COMPLETION

This Certificate is Presented to
SUNNAPU PAVAN DURGA KALYAN

To Commemorate his/her Completion of the Internship Program
from 01 NOV to 15 NOV year 2021


AUTHORIZED SIGNATURE



Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



CERTIFICATE OF COMPLETION

This Certificate is Presented to
MOHAMMED IRFAN SHARIF

To Commemorate his/her Completion of the Internship Program
from 01 NOV to 15 NOV year 2021


A circular stamp with 'ANT Recruitment' around the perimeter and a handwritten signature across it.

AUTHORIZED SIGNATURE


A handwritten signature in green ink.

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

Certificate

OF INTERNSHIP



We are Happy to Certify that

ALLAMPALLI SRIHARSHA

has done Internship during 01-06-2022 to 21-06-2022

We appreciate his \ her work and contributions

A circular stamp with the text 'Digital School' and 'G.I.E.T.' around the perimeter, containing a handwritten signature in black ink.

AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



Certificate


OF INTERNSHIP

We are Happy to Certify that


AKULA SHANMITHA SANDHYA DHARANI

has done Internship during 01-06-2022 to 21-06-2022

We appreciate his \ her work and contributions


A handwritten signature in black ink is written over a circular stamp. The stamp contains the text 'Digital Skills' and 'ANU DIGITAL'. Below the signature and stamp, the text 'AUTHORIZED SIGNATURE' is printed.

AUTHORIZED SIGNATURE


A purple ink stamp of a principal is located at the bottom right of the certificate. The stamp contains the text 'Principal', 'GIET ENGINEERING COLLEGE,', 'NH-16, Chaitanya Knowledge City,', and 'RAJAHMUNDRY-533 296.'.

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



CERTIFICATE OF COMPLETION

This Certificate is Presented to

CHALUMURI SEKHAR

To Commemorate his/her Completion of the Internship Program

from 01-DEC to 07-DEC year 2021



AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



CERTIFICATE OF INTERNSHIP

This Certificate is Presented to


CHELLURI VEERA BHADRACHARYULU

To Commemorate his/her Completion of the Internship Program

from 01.12.2021 to 06.12.2021 Year



AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



CERTIFICATE OF INTERNSHIP

This Certificate is Presented to

CHAMAKURI LAVANYA

To Commemorate his/her Completion of the Internship Program

from 01.12.2021 to 06.12.2021 Year



AUTHORIZED SIGNATURE

[Handwritten Signature]
Principal

GIET ENGINEERING COLLEGE,
Nrl-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



CERTIFICATE of INTERNSHIP

This Certificate is Proudly Presented to

MUDDA NAGA SIVANARAYANA




In appreciation for your successful work as an Intern

The Internship was Conducted between

01.05.2022 and 14.05.2022



AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
Nr:-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



CERTIFICATE of INTERNSHIP



This Certificate is Proudly Presented to

GOLLAPALLI MANIKANTA

In appreciation for your successful work as an Intern

The Internship was Conducted between

01.05.2022 and 14.05.2022



AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



CERTIFICATE of INTERNSHIP

This Certificate is Proudly Presented to



MOILLA MANIKANTA SWAMY

In appreciation for your successful work as an Intern

The Internship was Conducted between

01.05.2022 and 14.05.2022



AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



GLOBAL
e-SMART TECHNOLOGIES

Internship Certificate

This Certificate is Proudly Presented to

VALAPATLA CHAKRAVARTHI

has Completed Internship at GLOBAL e-Smart Technologies
From 25.06.2022 to 31.06.2022

We found him/her sincere, hardworking, dedicated and result oriented.
She/he worked well as part of the team during his/her tenure.
We take this to thank him/her and wish him/her All the best for his/her future.



AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
Nri-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

Internship Certificate

This Certificate is Proudly Presented to

SESETTI SADHA SUSMITHA

has Completed Internship at GLOBAL e-Smart Technologies
From 25.06.2022 to 31.06.2022

We found him/her sincere, hardworking, dedicated and result oriented.

She/he worked well as part of the team during his/her tenure.

We take this to thank him/her and wish him/her All the best for his/her future.



AUTHORIZED SIGNATURE



-Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 293.

CERTIFICATE



OF INTERNSHIP

PROUDLY PRESENTED TO

DULAM RUPA SREE NAGESH

The Staff will Intern in our company from 05.01.2022 to 15.01.2022

It is Hereby Certified the employee has performed well during his employment is united, cooperative, and is willing to help others.

This Cetificate is Hereby Attested to.

A circular stamp is visible behind the signature, containing the text "G.I.E.T. ENGINEERING COLLEGE".

AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.

CERTIFICATE



OF INTERNSHIP

PROUDLY PRESENTED TO


YERRAMSETTI RAMYA SRI

The Staff will Intern in our company from 05.01.2022 to 15.01.2022

It is Hereby Certified the employee has performed well during his employment is united, cooperative, and is willing to help others.

This Cetificate is Hereby Attested to.


AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
No.18, Chaltanya Knowledge City,
RAJAHMUNDRY-533 296.



ITC ACADEMY

Certificate

OF INTERNSHIP

This Certificate presented to

RAVIPATI SRI MANI SAICHANDRA MAHESH

Mr/Miss : _____

For the successful Completion of the Internship Program
from 01 MAY to 21 MAY year 2022


AUTHORIZED SIGNATURE



Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 295.



ITC ACADEMY

Certificate

OF INTERNSHIP

This Certificate presented to

Mr/Miss :

SINGAVARAPU ISHWARYA

For the successful Completion of the Internship Program

from 01 MAY to 21 MAY year 2022



AUTHORIZED SIGNATURE

Principal

Principal
GIET ENGINEERING COLLEGE,
Nr-16, Chaitanya Knowledge City,
WALUNDARY-533



CERTIFICATE OF COMPLETION

This Certificate is Presented to

Mr/Miss :

HEMANTH KUMAR NAIDU TUMMA

In Appreciation for your successfull work as an Intern at S INNOVATIONS PVT LTD.

The Intership is conducted between 01.12.2021 to 12.12.2021



AUTHORIZED SIGNATURE

Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



CERTIFICATE OF COMPLETION

This Certificate is Presented to

Mr/Miss : YEJJU SWAMY

In Appreciation for your successful work as an Intern at S INNOVATIONS PVT LTD.

The Internship is conducted between 01.12.2021 to 12.12.2021



AUTHORIZED SIGNATURE

A handwritten signature in green ink, appearing to be "Duv", written over a horizontal line.

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaltanya Knowledge City,
RAJAHMUNDRY-533 296.



SMART SELECT
solutions

CERTIFICATE OF INTERNSHIP

This Certificate is Presented to

GANGISETTI T N V B MANI MAHESH

Do your own job seriously and learn newknowledge very hard.

From 01 JULY to 15 JULY year 2022

The student has out standing performance in the company, hard working,
friendly to others, getting along with colleagues and having his/her own unique ideas.



AUTHORIZED SIGNATURE



Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



SMART SELECT
solutions

CERTIFICATE OF INTERNSHIP

This Certificate is Presented to

KUNDRAPU MAHESH


Do your own job seriously and learn newknowledge very hard.

From 01 JULY to 15 JULY year 2022

The student has out standing performance in the company, hard working,
friendly to others, getting along with colleguesand having his/her own unique ideas.



AUTHORIZED SIGNATURE


Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.



SMART SELECT
solutions

CERTIFICATE OF INTERNSHIP

This Certificate is Presented to

GARAGA VENKANNA BABU

Do your own job seriously and learn new knowledge very hard.

From 01 JULY to 15 JULY year 2022

The student has out standing performance in the company, hard working,
friendly to others, getting along with colleagues and having his/her own unique ideas.



AUTHORIZED SIGNATURE

Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 28



Certificate

OF INTERNSHIP

This Certificate is Proudly Presented to

BIRRE GANGADHAR

has Completed Internship at THOMSON & RYBERG PUBLICATIONS

From 05.08.2022 to 12.08.2022

We found him/her sincere, hardworking, dedicated and result oriented.

She/he worked well as part of the team during his/her tenure.

We take this to thank him/her and wish him/her All the best for his/her future.



AUTHORIZED SIGNATURE

Principal
SIET ENGINEERING COLLEGE
NH-16, Ghaitanya Knowledge City,
RAJAHMUNDRY-533 296.



Internship Certificate

This Certificate is Proudly Presented to

ANUMOLU KUMARI

has Completed Internship at The Stage Productions
From 01.02.2022 to 10.02.2022

We found him/her sincere, hardworking, dedicated and result oriented.

She/he worked well as part of the team during his/her tenure.

We take this to thank him/her and wish him/her All the best for his/her future.



AUTHORIZED SIGNATURE

Principal
GIET ENGINEERING COLLEGE,
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 293.



Internship Certificate

This Certificate is Proudly Presented to
MOHAMMAD SHAFI UDDIN

has Completed Internship at The Stage Productions
From 01.02.2022 to 10.02.2022

We found him/her sincere, hardworking, dedicated and result oriented.
She/he worked well as part of the team during his/her tenure.
We take this to thank him/her and wish him/her All the best for his/her future.



AUTHORIZED SIGNATURE

Principal
BIET ENGINEERING COLLEGE,
NH-16, Chaltanya Knowledge City,
RAJAHMUNDRY-533 296.



Internship Certificate

This Certificate is Proudly Presented to

SESETTI SADHA SUSMITHA

has Completed Internship at The Stage Productions
From 01.02.2022 to 10.02.2022

We found him/her sincere, hardworking, dedicated and result oriented.
She/he worked well as part of the team during his/her tenure.
We take this to thank him/her and wish him/her All the best for his/her future.



AUTHORIZED SIGNATURE

Principal
GIET ENGINEERING COLLEGE
NH-16, Chaitanya Knowledge City,
RAJAHMUNDRY-533 296.