

Dr. SAMUEL GEORGE INSTITUTE OF ENGG. & TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)

(An ISO 9001:2008 Certified Institution)

MARKAPUR-523316, A.P., INDIA

DEPARTMENT OF CIVIL ENGINEERING

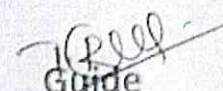


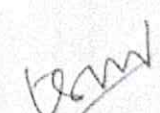
CERTIFICATE

This is to certify that the project Entitled "DETAILED ESTIMATION & RATE ANALYSIS ON RESIDENTIAL APARTMENT (C + G + 5) is a bonafied work of

B.Divya Jyothi	19351A0109
M.Lallu Jasmine	19351A0115
P.Madhu Babu	19351A0116
P.Samuelraju	19351A0132
Sk.Shameer	19351A0134


In partial fulfillment of requirements for the award of degree in Bachelor of Technology
In CIVIL ENGINEERING of Jawaharlal Nehru Technological University Kakinada,
During the academic year 2022-2023


Guide
T. RATHNA KUMARI
M. Tech. Asst. Professor


HEAD OF THE DEPARTMENT
Dr. Y. ESWAR RAO

M.Th. Ph.D.
Head of the Department
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MARKAPUR-523 316, Prakasam Dist.


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MARKAPUR-523316, A.P., INDIA

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to certify that this main project report titled "DESIGN ANALYSIS AND COST COMPARISON AND CONVENTIONAL AND PRE – CAST BUILDING" is a bonafied record of work carried out by

CH. RAMA KRISHNA REDDY	19351A0128
G. RISHITHA	19351A0131
B. NAGARAJU	19351A0122
Y. VAISHALI	19351A0141
K. VENKATESWARLU	19351A0142

In partial fulfillment of requirements for the award of degree of Bachelor of Technology in CIVIL ENGINEERING Of Jawaharlal Nehru Technological University Kakinada, during the academic year 2022-2023

GUIDE

K. VENKATESWARAO, M.Tech

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON STRENGTH OF CONCRETE WITH USING COPPER SLAG BY PARTIALLY REPLACEMENT OF FINE AGGREGATE" is a bonafied work of

P. Mahesh Babu	1935IA0118
M.B. Rama krishna	1935IA0103
K. Chinna Gopi	1935IA0106
S. Naveen kumar	1935IA0123
N. KUMARI	1935IA0114

In partial fulfillment of requirements for the award of degree in Bachelor of Technology
In CIVIL ENGINEERING of Jawaharlal Nehru Technological University Kakinada,
During the academic year 2022-202

Guide

K. Sriramulu.

M. Tech. Asst. Professor

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Dr. Y. ESWAR RAO

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This is to certify that the project entitled **"ESTIMATON AND COSTING OF HIGH-RISE BUILDING (G+4)** is a bonafied work of carried out by

C.RAJESH	20355A0103
M.SUNDARAM	20355A0105
G.RAVI TEJA	1935IA0129
G.RAJA SEKHAR YADAV	1935IA0127
M.SHILPA	1935IA0135

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Guide

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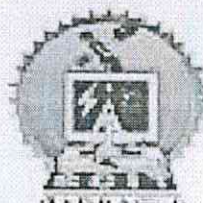
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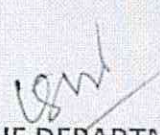
CERTIFICATE


This is to certify that this main project report titled “A STUDY ON
UTILISATION OF WASTE PLASTIC POWDER AS PARTIAL
REPLACEMENT OF FINE AGGEGATE IN CONCRETE
BLOCKS ” is a bonafied record of work carried out by

M. WILLIAM KERI	19351A0143
Y. SONIYA	19351A0137
Y. PREETHI	19351A0125
J. DEVENDRA	19351A0107
R. HARINATH REDDY	20355A0102

In partial fulfillment of requirements for the award of degree of Bachelor of Technology
in **CIVIL ENGINEERING** Of Jawaharlal Nehru Technological University Kakinada,
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GUIDE
P. ANIL ,M.Tech


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Dr. Y.ESWARA RAO, Ph.D.


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CERTIFICATE

This is to certify that the project entitled "Design and Analysis of Underground Sewerage Network" is a bonafied work carried out by G. ANJALIDEVI(1935IA0102), T. DINESHKUMAR(1935IA0108), D. MULLAR(1935IA0119), U. SRI DEVI (1935IA0138), SK. AKBAR ALI(20355A0101) under the guidance of N. RUDRA SEKHAR REDDY, submitted to the department of civil engineering, Dr. Samuel George Institute of Engineering and Technology College in partial fulfilment for award of B. Tech Degree in Civil Engineering.

PROJECT GUIDE:

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CERTIFICATE

This is to certify that this main project report titled "DESIGN AND ESTIMATION OF CC ROAD IN RURAL AREA" is a benefited record of work carried out by

J. PRANAY KUMAR	19351A0124
V. RAGHU RAMI REDDY	19351A0126
P. CHANDRA VAMSI	19351A0105
M. NADHIYA	19351A0121
J. SIREESHA	19351A0136

In partial fulfillment of requirements for the award of degree of Bachelor of Technology in CIVIL ENGINEERING Of Jawaharlal Nehru Technological University Kakinada, during the academic year 2022-2023

GUIDE

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CERTIFICATE

This is to certify that the project work entitled
A STUDY ON USE OF RICE HUSK ASH AS A CONCRETE

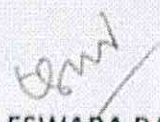
Has been carried out by


SK. SUBHANI	19351A0139
SK. MUTHUJAVALI	19351A0120
G. ANIL	19351A0101
CH. MAHESH	19351A0117
SK. RIHANA	19355A0130

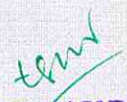
The students of final year B. Tech under my supervision and guidance submitted in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING of Jawaharlal Nehru Technological University Kakinada, Kakinada during the academic year 2019-2023.


N. RUDRA SEKHAR REDDY
M.Tech
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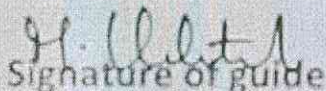


CERTIFICATE

This is to certify that this main project report titled "ANALYSIS OF THE
IMPACT OF ELECTRICAL VEHICLE CHARGING STATION ON POWER
QUALITY ISSUES" is a bonafied record of work carried out by

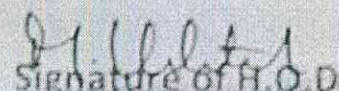
R.PRATHEESH	(19351A0214)
K.RAJA SAI	(19351A0217)
P.SHAMCHAND	(19351A0221)
J.SRINIVASA REDDY	(19351A0224)

In partial fulfillment of requirements for the award of degree of Bachelor of
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Sri. M. VENKATESWARLU

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that this main project report titled "A UNIFIED CONTROL AND POWER MANAGEMENT SCHEME FOR PV-BATTERY-BASED HYBRID MICROGRIDS FOR BOTH GRID-CONNECTED AND ISLANDED MODES" is a bonafied record of work carried out by

SK.YASAR 20355A0210

SK.KHAJAVALI 19351A0208

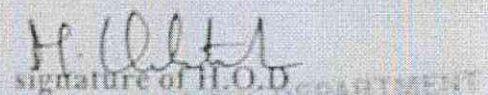
Y.JANARDHANA 19351A0206

K.DIVYA 19351A0203

in fulfillment of requirements for the award of degree of Bachelor of Technology in ELECTRICAL & ELECTRONICS ENGINEERING Of Jawaharlal Nehru Technological University Kakinada, during the academic year 2022-2023


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M.VENKATESWARLU


signature of H.O.D.
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DR.SGT, MARKAPUR
Prakasam Dist. A.P. 523316


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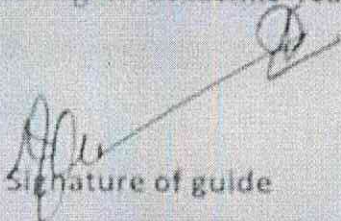


CERTIFICATE

This is to certify that the project work entitled "IMPLEMENTATION OF SOLAR PV-BATTERY AND DIESEL GENERATOR BASED ON ELECTRICAL VEHICLE CHARGING STATION" has been carried out by

SK.ASHIF	(20355A0202)
ESATHYAM	(19351A0220)
A.GANESH REDDY	(20355A0204)
T.V. RAMANALAH	(17355A0211)
J.DINAKAR	(20355A0203)

The students of final year B.Tech under my supervision and guidance submitted in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING of Jawaharlal Nehru Technological University Kakinada, during the academic year 2022-2023.


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Sri.K.SURESH KUMAR
B.Tech,M.Tech,(Ph.D)
Assoc. Professor


Signature of H.O.D

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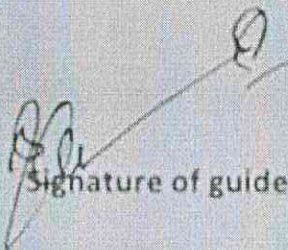
CERTIFICATE

This is to certify that this main project report titled "INTELLIGENT CONTROL & POWER MANAGEMENT OF WIND SOLAR INTEGRATION OF RENEWABLE ENERGY SOURCES USING MICROGRID" is a bonafied record of work carried out by

S.PRIYA MEGHANA REDDY

(19351A0215)

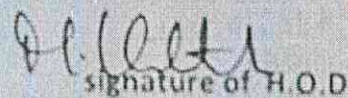
In fulfillment of requirements for the award of degree of Bachelor of Technology in ELECTRICAL & ELECTRONICS ENGINEERING Of Jawaharlal Nehru Technological University Kakinada, during the academic year 2022-2023


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Sri K. SURESH KUMAR

B.TECH, M.TECH, (Ph.D)

Asso Professor


signature of H.O.D

Sri M. VENKATESWARLU

BE, M.TECH, MISTE, (Ph.D)

Asso Professor


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MARKAPUR-523316, A.P., INDIA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that this main project report titled "MODELING AND CONTROL OF MULTIPORT CONVERTER BASED EV CHARGING STATION WITH PV AND BATTERY" is a bonafied record of work carried out by

D.AKHILA	(20355A0201)
S.RAJKUMAR	(19351A0218)
LSRINIVASA REDDY	(19351A0223)
C.THIRUMALESH	(19351A0226)

In partial fulfillment of requirements for the award of degree of Bachelor of Technology in ELECTRICAL AND ELECTRONICS ENGINEERING Of Jawaharlal Nehru Technological University Kakinada, during the academic year 2022-2023

Signature of Guide

M.VENKATESWARLU

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Assoc. Professor

Signature of H.O.D

M.VENKATESWARLU

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Assoc. professor

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MARKAPUR-523316, A.P., INDIA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that this main project report entitled "DESIGNING OFF-BOARD ELECTRIC VEHICLE BATTERY CHARGER USING PV ARRAY WITH MATLAB AND SIMULINK" is a bonafied record of work carried out by

SK.SOCIEN ASIFA

(19351A0222)

D.MALIK

(19351A0210)

P.PRIYANKA

(20355A0206)

M.VIJAYA RAJU

(19351A0227)

in fulfillment of requirements for the award to the degree of Bachelor of Technology in ELECTRICAL & ELECTRONICS ENGINEERING of Jawaharlal Nehru Technological University Kakinada, during the academic year 2022-2023.


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Smt.V.SIREESHA

M.Tech

Asst. Professor

HEAD OF THE DEPARTMENT
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Dr. SGT. MARKAPUR
21/07/2023


Signature of H.O.D

Sri.M.VENKATESWARULU

M.Tech,MISTE,(Ph.D)

Assoc. Professor

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CERTIFICATE

This is to certify that the project work entitled

**DESIGN AND OPTIMIZATION OF A CAR DOOR BY USING
COMPOSITE MATERIALS**

Has been carried out by

P. MAHESH (19351A0316)


G. RANGANAYAKULU (19351A0327)

K. KHASIMSAB (19351A0313)


SK. ABDUL KHADAR (19351A0301)

Y. GADILINGAPPA (19351A0309)

The students of final year B.Tech under my supervision and guidance submitted in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the academic year **2022-2023**.


Sri D. RAMESH BABU
M.Tech
(Guide)
ASSOCIATE PROFESSOR
Dept. of Mechanical Engineering

External Examiner 


Dr. M. MASTANAIAH
M.Tech, Ph.D, MISTE
(H.O.D)
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Dept. of Mechanical Engineering
~~Dr. Samuel George Institute of Engineering & Technology~~
Mechanical Engineering
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MARKAPUR – 523 316, PRAKASAM (DIST), A.P.



CERTIFICATE

This is to certify that the project work entitled
**DESIGN AND FRACTURE ANALYSIS OF FUSELAGE
AND WING JOINT**

Has been carried out by

K. PRAKASHRAO (20355A0304)

SK. ABHUL RAHIM (19351A0302)

V. VEERESH (19351A0336)

SK. M.NOORULLA (20355A0302)

N. MAHESHWARA REDDY (19MC1A0336)

The students of final year B.Tech under my supervision and guidance submitted in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the academic year **2022-2023**.


Sri G. GANGA RAO


M.Tech

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ASSISTANT PROFESSOR

Dept. of Mechanical Engineering


EXTERNAL EXAMINER


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(H.O.D)

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Mechanical Engineering

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This is to certify that the project work entitled
DESIGN AND ANALYSIS OF A WASTE HEAT BOILER DUCT

Has been carried out by

V. BABU (19351A0304)

B. MANJU (19351A0318)

K. SUJAN PRIYANKA (19351A0334)

Y. ANIL KUMAR (19351A0303)

V. VANDAN KUMAR (19351A0335)

The students of final year B.Tech under my supervision and guidance submitted in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada, Kakinada during the academic year 2022 - 2023.

Dr. M. MASTANAIAH

M.Tech, Ph.D, MISTE

(Guide)

PROFESSOR & HOD

Dept. of Mechanical Engineering

**Mechanical Engineering
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MARKAPUR-523 316, Prakasam Dist.**

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CERTIFICATE

This is to certify that the project work entitled
**DESIGN AND ANALYSIS OF GAS TURBINE COMBUSTION
CHAMBER**

Has been carried out by

P. SIVA REDDY (19351A0332)

D.SAMSON GRACE LIVINGSTAN(19351A0329) CH.SHIVA (19351A0330)


P.BRAMHAIAH (19351A0306) M. PRASANTH (19351A0322)

The students of final year B.Tech under my supervision and guidance submitted in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the academic year **2022-2023**.


Miss S. CYNTHIA GRACE
M.Tech


(Guide)
ASSISTANT PROFESSOR
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EXTERNAL EXAMINER


Dr. M. MASTANAIAH
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(H.O.D)

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~~Senior Assistant Professor~~
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CERTIFICATE

This is to certify that the project work entitled
DESIGN AND ANALYSIS OF CAR AC DUCT

Has been carried out by

A. RATNA KUMAR (20355A0305)


B. GOPI (19351A0311)

J. NITHIN (19351A0321)

A. SIVA KOTESWARA RAO (19351A0331)


**B. SIVA MADHAVA NAIDU
(20355A0306)**

The students of final year B.Tech under my supervision and guidance submitted in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the academic year **2022-2023**.


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CERTIFICATE

This is to certify that the project work entitled

**DESIGN AND ANALYSIS OF ADJUSTABLE SUSPENSION
IN VEHICLE**

Has been carried out by

P.NAGA MANEENDRA(19351A0319)

R.VICTOR BABU(19351A0339)

P.SUDARSAN(19351A0333)

R.MAHESH BABU(19351A0317)

The students of final year B.Tech under my supervision and guidance submitted in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada, Kakinada during the academic year 2022-2023.



Sri U.ARAVIND

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MARKAPUR - 523 316, PRAKASAM (DIST), A.P.




CERTIFICATE

This is to certify that the project work entitled "THERMAL PERFORMANCE ANALYSIS OF A SOLAR WATER HEATING SYSTEM WITH HEAT PIPE EVACUATED TUBE COLLECTOR" is a bonafied work submitted by **G. ANIL** bearing HT No. 18351D2101 under my guidance and supervision in partial fulfillment of the requirements for the award of degree of MASTER OF TECHNOLOGY in THERMAL ENGINEERING of **Jawaharlal Nehru Technological University, Kakinada** during the academic year 2019-2020. This project work has not been submitted to any other university or institution for the award of any degree. The results of this project have been verified and found satisfactory.


Sri D. RAMESH BABU
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CERTIFICATE

This is to certify that the project work entitled " COMPUTATIONAL FLUID DYNAMICS ANALYSIS AND OPTIMIZATION OF ENGINE DESIGN FUELLING" is a bonafied work submitted by **N.SWARNA RAJ** bearing HT No. 20351D2103 under my guidance and supervision in partial fulfillment of the requirements for the award of degree of MASTER OF TECHNOLOGY in THERMAL ENGINEERING of **Jawaharlal Nehru Technological University, Kakinada** during the academic year 2021-2022. This project work has not been submitted to any other university or institution for the award of any degree. The results of this project have been verified and found satisfactory.


Sri D. RAMESH BABU

M.Tech

(Guide)

ASSOCIATE PROFESSOR

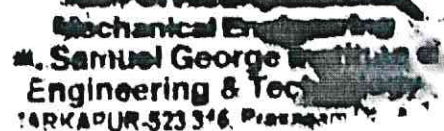
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Since...1997

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project report entitled "ENERGY - EFFICIENT RESOURCE ALLOCATION FOR 5G COGNITIVE RADIO NOMA USING GAME THEORY" submitted by E.SAISA (19351A0456), G.UMA (19351A0478), M.SPANDHANA (19351A0463), P.SUREKHA (19351A0472), in partial fulfilment for award to the degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023.

SIGNATURE OF THE PROJECT GUIDE

SIGNATURE HEAD OF THE DEPARTMENT

Y.V.ADI SATYANARAYANA ,B.E., M.tech.,(Ph.D) Y.V.ADI SATYANARAYANA ,B.E., M.tech.,(Ph.D)

PROFESSOR

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Signature of The External Examiner

PRINCIPAL

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Since...1997

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project report entitled "FIRE ALARM BASED ON SPATIAL TEMPORAL ANALYSIS OF FIRE IN VIDEO" submitted by M. VENKATA KRISHNARAO (19351A0481), D.RASOOL BASHA (19351A0451), K.VIJAY KUMAR (19351A0489), D.AJAYKUMAR (19351A0401), J.NARASIMHA REDDY (19351A0435) in partial fulfilment for award to the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinadaduring the academic year 2019-2023

SIGNATURE OF THE PROJECT GUIDE

K.MARUTHIRAO, B.E., M.tech

ASSOC.PROFESSOR

SIGNATURE HEAD OF THE DEPARTMENT

Y.V.ADI SATYANARAYANA, B.E., M.tech (PHD)

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Since 1997

BONAFIDE CERTIFICATE

This is to certify the project report entitles "SOIL CLASSIFICATION USING MODIFIED SUPPORT VECTOR MACHINE" submitted by K.BHASKAR (20355A0401), A.LAKSHMI NARASIMHA NAIDU (19351A0421), P.PREM KUMAR (19351A0442), D.SREEHARI (19351A0466), K.VENKATA NAGARAJU (19351A0485) in partial fulfilment of award to the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023.


SIGNATURE OF THE PROJECT
GUIDE

P.KHADAR KHAN M.Tech
ASSISTANT PROFESSOR


SIGNATURE HEAD OF THE
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Y.V. ADI SATYANARAYANA R.E.

M.Tech, (PhD)


HOD OF ECE

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Signature of the External Examiner

2019-2023


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project report entitled " Trends and challenges for the spectrum efficiency in NOMA and MIMO based Cognitive Radio in 5G Networks " submitted by D.Pavankumar Reddy(19351A0439),k.Sathishkumarreddy(19351A0459),P.shyam(19351A0461),P.Suryaprakash Reddy(19351A0473 in partial fulfillment for award to the degree of BACHELOR OF TECHNOLOGY IN ELECTRONIC AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023

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MARKAPUR - 523316, Prakasam-(dist.), AP



BONAFIDE CERTIFICATE

This is to certify the project report entitles "OPTIMAL TRANSMIT ANTENNA SELECTION FOR MASSIVE MIMO WIRETAP CHANNELS" submitted by M.SWETHA (19351A0474), GRAJYA LAKSHMI (19351A0449), R.GAYATHRI (19351A0410), SK.HAZLIYANA (19351A0415), G.DEVA KUMARI (19351A0409) in partial fulfilment of award to the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023.

SIGNATURE OF THE PROJECT GUIDE

Y V ADI SATYANARAYANA
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PROFESSOR & HOD

SIGNATURE HEAD OF THE DEPARTMENT

Y V ADI SATYANARAYANA
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2019-2023

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BONAFIDE CERTIFICATE

This is to certify the project report entitles "TWO HIGH-PERFORMANCE SCHEMES OF TRANSMIT ANTENNA SELECTION FOR SECURE SPATIAL MODULATION" submitted by MASHOK KUMAR (19351A0402), D.GOPI (19351A0412), K.NAGARJUNA (19351A0434), P.SASIDHAR REDDY (19351A0458), K.VENKATA NAGA SAI KUMAR (19351A0486) in partial fulfillment of award to the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023.

MP 19/04/2023
SIGNATURE OF THE PROJECT GUIDE
SK. MASTAN VALI B.Tech, M.Tech
ASSISTANT PROFESSOR

Y.V. Adi Satyanarayana 19/4/23
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Accredited by NAAC

Markapur, Prakasam (District), Andhra Pradesh


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING




Since...1997

BONAFIDE CERTIFICATE

This is certify the project report entitles "Machine Learning Based Image Retrieval Using Exact Extraction of Intensity Pixel Algorithm" submitted by D. LAKSHMINARAYANA (19351A0422), A.MAHESH (19351A0428), A.RAJASEKHAR REDDY (19351A0447), T.VENKATA SAI (19351A0488), in partial fulfillment of award to the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023.


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SIGNATURE HEAD OF THE DEPARTMENT
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Signature of the External Examiner

(2019-2023)


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BONAFIDE CERTIFICATE

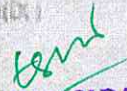
This is to certify that the project report entitled "ROBUST DESIGN FOR INTELLIGENT REFLECTING SURFACE ASSISTED MIMO-OFDMA TERAHERTZ IOT NETWORKS" submitted by B.MARY VARJEENIYA (19351A0433), ILLURI USHASRI (19351A0480), K.MARIYAMMA (19351A0432), K.MANJULA (19351A0431), Y.LEENA (19351A0425) in partial fulfillment for award to the degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023.


SIGNATURE OF THE
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M.Tech
ASSISTANT PROFESSOR


SIGNATURE OF HEAD OF THE
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Markapur, Prakasam (District), Andhra Pradesh

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Since...1997


BONAFIDE CERTIFICATE

This is certify the project report entitles "IMAGE QUALITY ENHANCEMENT ALGORITHM BASED ON GAME THEORY MODEL" submitted by SK. RAWOOF (19351A0452), S.PRADEEP (19351A0441), SK. SARFARAJ (19351A0452), SK. ALTHAF (19351A0427), in partial fulfillment of award to the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023.


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SIGNATURE HEAD OF THE DEPARTMENT


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Markapur, Prakasham (Dist:K), Andhra Pradesh.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the report entitled "DEEP LEARNING UNDER WATER IMAGE CORNER CONNECTION AND CONTRAST ENHANCEMENT BASED ON HUI PRESERVATION" the Bonafide work carried out by

A.SRAVANI (19351A0464)

P.V.L.SOWMIKA (19351A0481)

B.HANSI (19351A0417)

H.MAHESWARI (19351A0429)

M.V.NAGA LAKSHMI (19351A0464)

In partial fulfillment of the requirements for the award of degree of Bachelor of Technology in the Department of Electronics and Communication Engineering, from JNTUK during the Year 2019-2020.

Signature of the project guide

Y.V. ADI SATYANARAYANA, I.E. M.TECHNOL

H.O.D & Professor

Dept of ECE

Head of the Department of ECE

Y.V. ADI SATYANARAYANA, I.E. M.TECHNOL

H.O.D & Professor, Dept. of E.C.E.

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EXTERNAL EXAMINER

PRINCIPAL
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TECHNOLOGY**

(Affiliated to JNTUKAKINADA & An ISO 9001-2000 Certified Institute)

MARKAPUR - 523316, Prakasam (dist.), AP



BONAFIDE CERTIFICATE

This is to certify the project report entitles "IMAGE FORENSIC FOR DIGITAL IMAGE COPY MOVE FORGERY DETECTION" submitted by P.VAMSI (20355A0403), E. SREEKANTH (19351A0467), G.RAJA REDDY (19351A0446), P.H. NARESH (19351A0436), A. ATCHUTH (19351A0403) in partial fulfilment of award to the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023.

SIGNATURE OF THE PROJECT GUIDE
B. HYER JAYA DEV (M.Tech)
ASSISTANT PROFESSOR

SIGNATURE HEAD OF THE DEPARTMENT
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HOD OF ECE

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MARKAPUR - 523316, Prakasam-(dist.), AP



Since 1997

BONAFIDE CERTIFICATE

This is to certify the project report entitles "LEAF DISEASE DETECTION USING IMAGE PROCESSING" submitted by D.BHAVYA (19351A0405), P. RAJESWARI (19351A0448), M. SYAMALA (19351A0475), C. SAILAJA (19351A0453), in partial fulfilment of award to the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING from Jawaharlal Nehru Technological University, Kakinada during the academic year 2019-2023.

SIGNATURE OF THE

PROJECT GUIDE

CH. V. PRUDHVILA

B.Tech., (M.Tech)

ASSISTANT PROFESSOR

SIGNATURE OF THE

HOD

Y. V. ADI SATYANARAYANA

B.E., M.Tech., (Ph.D)

Head of the Dept.

Dept. of E C E

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Signature of the External Examiner

(2019-2023)

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certified Institution)

MARKAPUR (M), PRAKASAM (DT) - 523316, A.P.



DEPARTMENT OF DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS

BONAFIED CERTIFICATE

This is to certify that the main project entitled "Brain Tumor Detection and Classification of MR Images Using Texture Features and Fuzzy SVM Classifier" is the BONAFIED work carried out by **MUNNANGI NIKHITHA (17351D3810)** In the partial fulfillment of the requirements for "DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS" the award of Degree of Master in Technology of Jawaharlal Nehru Technological University, Kakinada in the year 2022.


Signature of Project Guide

P KHADAR KHAN M.Tech

Assistant Professor,

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Head of Department of E.C.E

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H.O.D & Professor, Department of E.C.E
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EXTERNAL EXAMINER


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DEPARTMENT OF DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS

BONAFIED CERTIFICATE

This is to certify that the main project entitled "IMAGE FUSION BASED ON INTEGRATED PCA WITH ANISOTROPIC DIFFUSION" is the BONAFIED work carried out by **VADLAMANI DIVYA MADHURI (15351D3805)** In the partial fulfillment of the requirements for " DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS" the award of Degree of Master in Technology of Jawaharlal Nehru Technological University, Kakinada in the year 2018.

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DEPARTMENT OF DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS

BONAFIED CERTIFICATE

This is to certify that the main project entitled

“BER Augmentation for 1-bit AD CONVERTER MULTI IMQ-CE MODULATION System Via Selective Channel Coding Technique” is the BONAFIED work carried out by **SIROLLA RAMANJANEYULU (16351D3811)** In the partial fulfillment of the requirements for “DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS” the award of Degree of Master in Technology of Jawaharlal Nehru Technological University, Kakinada in the year 2022.

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DEPARTMENT OF DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS

BONAFIED CERTIFICATE

This is to certify that the main project entitled

“Pattern Division Multiple Access: A New Multiple Access Technology for 5G”
is the BONAFIED work carried out by **SHAIK UMER PARVEEN (16351D3818)** In the partial fulfillment of the requirements for “DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS” the award of Degree of Master in Technology of Jawaharlal Nehru Technological University, Kakinada in the year 2022.

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BONAFIED CERTIFICATE

This is to certify that the main project entitled ROBUST DESIGN FOR INTELLIGENT REFLECTING SURFACE ASSISTED MIMO-OFDMA TERAHERTZ IOT NETWORKS is the BONAFIED work carried out by TADIKAMALLA LAKSHMI SRAVANI (18351D3809) In the partial fulfillment of the requirements for " DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS" the award of Degree of Master of Technology in Jawaharlal Nehru Technological University, Kakinada in the year 2022.


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DEPARTMENT OF DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS

BONAFIED CERTIFICATE

This is to certify that the main project entitled “A Low-Complexity Hybrid Subblock Segmentation PTS Scheme for PAPR Reduction in MIMO-OFDM System” is the BONAFIED work carried out by A.MAHESWARI (18351D3810) In the partial fulfillment of the requirements for “ DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS” the award of Degree of Master of Technology in Jawaharlal Nehru Technological University, Kakinada in the year 2022.


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DEPARTMENT OF DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS

BONAFIED CERTIFICATE

This is to certify that the main project entitled **PERFORMANCE COMPARISON AMONG HYBRID NOMA SYSTEMS FOCUSING ON OUTAGE RATE AND SUM RATE ARRANGEMENT**

is the BONAFIED work carried out by **PULUKURI NIRMALA (17351D3813)** in the partial fulfillment of the requirements for DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS the award of Degree of Master of Technology in Jawaharlal Nehru Technological University, Kakinada in the year 2022.

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BONAFIED CERTIFICATE

This is to certify that the main project entitled EXTENSIVE SPECTRUM EFFICIENCY OF MASSIVE MIMO CHANNELS FOR 5G MOBILE WIRELESS COMMUNICATION SYSTEM is the BONAFIED work carried out by YELCHURI SRUTHI (19351D3814) In the partial fulfillment of the requirements for "DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS" the award of Degree of Master of Technology in Jawaharlal Nehru Technological University, Kakinada in the year 2022.


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BONAFIED CERTIFICATE

This is to certify that the main project entitled

Adaptive Pilot Pattern for Massive MIMO Systems

is the Bonafied work carried out by **M.GAYATHRI (18351D3803)** In the partial fulfillment of the requirements for DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS the award of Degree of Master of Technology in Jawaharlal Nehru Technological University, Kakinada in the year 2022.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the thesis entitled "**FAKE CURRENCY DETECTION USING IMAGE PROCESSING**" that is being submitted by

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SK.NISSAR AHAMAD	(19351A0540)
SK.KAREEMULLA	(19351A0521)
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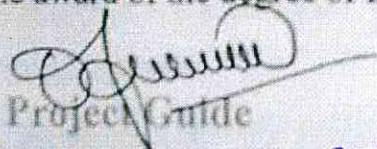
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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This is to certify that the thesis entitled "ROBUST DEFENSE SCHEME AGAINST SELECTIVE DROP ATTACK IN WIRELESS AD HOC NETWORKS" that is being submitted by

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This is to certify that the thesis entitled "ANDROID MALWARE DETECTION USING GENETIC ALGORITHM BASED OPTIMIZED FEATURE SELECTION AND MACHINE LEARNING" that is being submitted by

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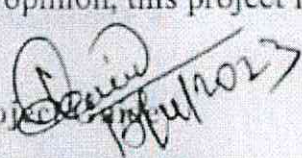
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This is to certify that the thesis entitled "TEXT SUMMARIZATION USING DEEP LEARNING" that is being submitted by

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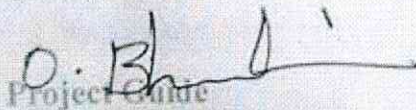
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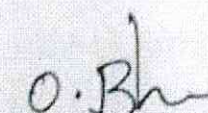
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N.JAYA DEEPTHI	(1935IA0517)
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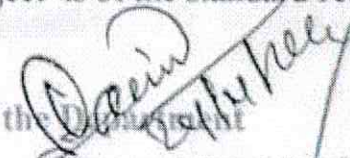
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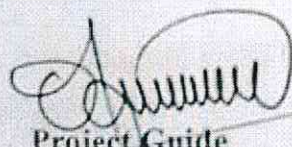
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CERTIFICATE

This is to certify that the thesis entitled "Predicting the Rice Leaf Diseases Using CNN" that is being submitted by

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in partial fulfillment for the award of Bachelor of Technology (B. Tech) in Computer Science and Engineering to the Jawaharlal Nehru Technological University is a record of Bonafied work carried out by him under my guidance and supervision. The results embodied in this project have not been submitted to any other University or Institute for the award of any degree or diploma. In my opinion, this project is of the standard required for the award of the degree of B. Tech.



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