

**A Seminar Report on**

**Design of A mm -Wave Microstrip Square Patch  
Antenna For 5G Applications at 34GHz**

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

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**J.N.T.UNIVERSITY, KAKINADA**

**Submitted**

**By**

**S. Bhargavi(19E91A0405)**

**K.V. Pawan Kalyan(20E95A0408)**

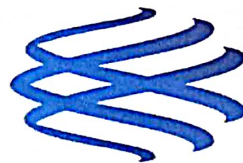
**M. Yasaswini(20E95A0409)**

**L. Vijaya Kumari(19E91A0433)**

**Under the Guidance of**

**Mrs. P.Pratyusha, M.Tech., (Ph.D)**

**Assistant Professor**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Chirala Engineering College, CHIRALA**

**(Approved by AICTE New Delhi, Affiliated to JNTUK, Kakinada**

**(Accredited by NAAC with 'A' Grade)**

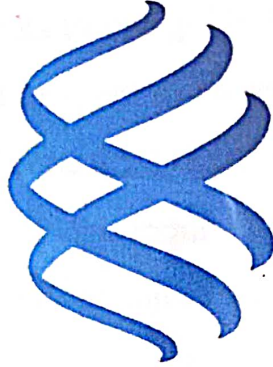
**2019-2023**

Chirala Engineering College, CHIRALA

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(Accredited by NAAC with 'A' Grade)

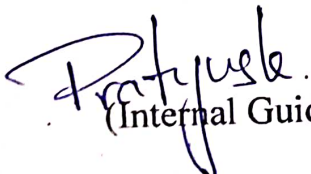
**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**



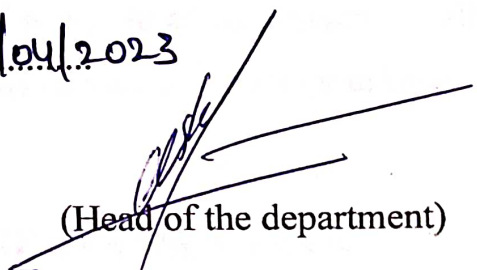
BONAFIDE CERTIFICATE

This is to certify that the report entitled “**Design of a mm -Wave Microstrip Square Patch Antenna For 5G Applications at 34GHz**” is submitted by **S.Bhargavi(19E91A0405)K.V.PawanKalyan(20E95A0408),M.Yasaswini(20E95A0409),L.VijayaKumari(19E91A0433)** Who has carried out under my Guidance and supervision, as a partial fulfillment for the award of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING OF J.N.T.UNIVERSITY, Kakinada** during the academic year 2019-2023.

Viva voice Date. 15/04/2023

  
(Internal Guide)

Mrs.P.Pratyusha M.Tech.,(Ph.D)

  
(Head of the department)

Dr. Shaik.Basheera, M. Tech., Ph.D.,  
**Head of the Department**  
**Department of E.C.E.**  
**CHIRALA ENGINEERING COLLEGE**  
CHIRALA-523157

  
EXTERNAL EXAMINER

A Project Report on  
**DATA SECURITY APPROCH IN IOT ENVIRONMENT**  
Submitted in partial fulfillment of requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**ELECTRONICS AND COMMUNICATION ENGINEERING**  
J.N.T. UNIVERSITY, KAKINADA

Submitted By

Y. SRINU  
(20E95A0414).

B. APOORVA LAKSHMI  
(19E91A0403).

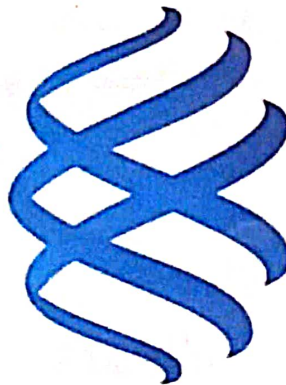
E. VENKATA ASHA JYOTHI  
(19851A0408).

N. RAMANJANEYULU REDDY  
(19E91A0420).

Under the Esteemed Guidance of

Mr. MURLA B REDDY M. Tech., (Ph., D), SM: IEEE, OSA SPIE

Associate Professor



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Chirala Engineering College: CHIRALA

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

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2019-2023



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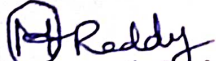
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



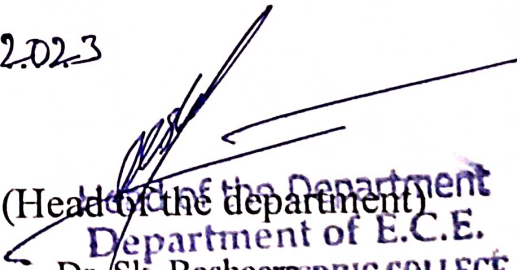
BONAFIDE CERTIFICATE

This is to certify that the report entitled "DATA SECURITY APPROCHES IN IOT ENVIRONMENT" is submitted by **YEBBILI SRINU (20E95A0414)**, **E. VENKATA ASHA JYOTHI (19851A0408)**, **BHASKARUNI APOORVA LAKSHMI (19E91A0403)**, **NAIDU RAMANJANEYULU REDDY (19E91A0420)**. Who has carried out under my Guidance and supervision, as a partial fulfillment for the award of BACHELORE OF TECHNOLOGY IN ELECTRONICS & COMMUNICATION ENGINEERING OF J. N. T. UNIVERSITY, Kakinada during the academic year 2022-2023.

Viva voice Date 15/04/2023

  
(Internal Guide)

Mr. Murla B REDDY

  
(Head of the Department)  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

  
EXTERNAL EXAMINEE



A project report on

# SMART LIGHTING AND SECURITY SYSTEM

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

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

J.N.T. UNIVERSITY, KAKINADA

Submitted by

J. AKASH (20E95A0406)

P. PHANINDRA (20E95A0412)

P. MANIKANTA (20E95A0411)

G.N.V. AJAY SAI(19E91A0415)

Under the Esteemed Guidance of

Mr. K. RAJESH M.TECH.

Asst. Prof., Dept. of ECE



**CHIRALA**  
ENGINEERING COLLEGE  
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DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

Chirala Engineering College, CHIRALA

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

(Accredited by NAAC with 'A' Grade)

2019-2023

RAMAPURAM BEACH ROAD, CHIRALA, BAPATLA DISTRICT,  
ANDHRA PRADESH, INDIA-523157.

(2019-2023)

# CHIRALA ENGINEERING COLLEGE, CHIRALA

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

(Accredited by NAAC with 'A' Grade)

2019-2023

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING




**CHIRALA**  
ENGINEERING COLLEGE

Where Professionalism Speaks

## CERTIFICATE

This is to certify that the project report entitled "SMART LIGHTING AND SECURITY SYSTEM" is submitted by **J. AKASH (20E95A0406), P. PHANINDRA (20E95A0412), P. MANIKANTA (20E95A0411), G.N.V. AJAY SAI(19E91A0415)**, in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** is a record of bona fide work carried out by them under our supervision during the academic year (2022-2023).

Viva Voce Date:

  
Internal Guide

(Mr. K. RAJESH)

  
Head of the Department

(Dr. Sk. BASHEERA)  
Head of the Department  
Department of E.C.E  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

  
External Examiner



**A Project Report on**  
**SKIN LESION CLASSIFICATION BY USING CNN**  
**AND MLP**

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

**BACHELOR OF TECHNOLOGY IN**  
**ELECTRONICS AND COMMUNICATION ENGINEERING**  
**J.N.T. UNIVERSITY, KAKINADA**

**Submitted By**

**URITI VIJAY**

**(19E91A0432)**

**DARAM MYNA**

**(19E91A0414)**

**VEERANKI SRAVANTHI**

**(20E95A0413)**

**KATTA SIVANAGESWARA RAO**

**(19E91A0425)**

**Under Esteemed the Guidance of**

**Dr. Shaik. Basheera** M. Tech., Ph.D., MISTE., AIENG.

Associate Professor



**DEPARTMENT OF ELECTRONICS & COMMUNICATION**  
**ENGINEERING**

Chirala Engineering College, CHIRALA

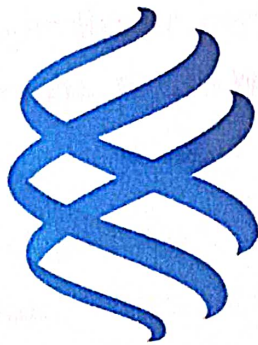
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(Accredited by NAAC with 'A' Grade)

2019-2023

Chirala Engineering College, CHIRALA  
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(Accredited by NAAC with 'A' Grade)

**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**



**BONAFIDE CERTIFICATE**

This is to certify that the report entitled "SKIN LESION CLASSIFICATION BY USING CNN AND MLP" is submitted by **URITI. VIJAY (19E91A0432), VEERANKI. SRAVANTHI (20E95A0413), DARAM. MYNA (19E91A0414), KATTA. SIVANAGESWARARAO (19E91A0425)**. Who is carried out under my Guidance and supervision, as a partial fulfillment for the award of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING OF J. N. T. UNIVERSITY, Kakinada** during the academic year 2019-2023.

Viva-voice Date..15/4/23

(Internal Guide)

(Head of the department)

Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523157

EXTERNAL EXAMINE



A Project Report on

# **KIDNEY DISEASE CLASSIFICATION USING CNN**

*A Project Report Submitted in partial fulfilment of the Requirements for the award of  
the degree*

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**J.N.T. UNIVERSITY, KAKINADA**

**Submitted**

**by**

A. Laharika(20E95A0401)

K. Prashanth Kumar(20E95A0407)

K. Malathi Latha(19E91A0411)

G. Nitish Kumar(19E91A0417)

**Under the esteemed guidance of**

**Mr. G.S.A.J Mani Kumar, M.Tech.,**

**Associate Professor**

**Department of ECE**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**(Approved by A.I.C.T.E. and Affiliated to J.N.T.U., Kakinada)  
RAMAPURAM BEACH ROAD- 523157, PRAKASAM DISTRICT  
ANDHRA PRADESH, INDIA**

Chirala Engineering College, CHIRALA

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

(ISO certified, A-Grade by APSICHE, Govt. of Andhra Pradesh)

**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**





## BONAFIDE CERTIFICATE

This is to certify that the project report entitled “KIDNEY DISEASE CLASSIFICATION USING CNN”, submitted by A. LAHARIKA (20E95A0401), K. PRASANTH KUMAR (20E95A0407), K. MALATHI LATHA (19E91A0411), G. NITEESH (19E91A0417) in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING, from Chirala Engineering College, affiliated to the Jawaharlal Nehru Technological University (JNTU), Kakinada, is a record of Bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of degree.

Viva voice Date. 15-04-23

  
PROJECT GUIDE  
Mr. G.S.A.J Mani Kumar, M.Tech.,

  
HEAD OF THE DEPARTMENT  
Dr. Shaik. Basheera, M. Tech., Ph.D.,  
Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

  
EXTERNAL EXAMINER



**A Project Report on**

**IDENTIFICATION AND CLASSIFICATION OF  
TOMATO PLANT LEAF DISEASES USING A  
NOVEL CNN**

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

**BACHELOR OF TECHNOLOGY IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**J.N.T. UNIVERSITY, KAKINADA**

**Submitted by**

**GERA SUJITHA**

**(20E95A0405)**

**PEDAPOLU MANIKANTA**

**(19E91A0413)**

**BOYAPATI NAGATRIVENI**

**(20E95A0403)**

**NAKKALA NAVEEN KUMAR**

**(19E91A0416)**

**Under the guidance of**

**Dr. SHAIK BASHEERA M.Tech., Ph.D., MISTE., AIENG**

**Associate Professor**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Chirala Engineering College, CHIRALA**

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

**(Accredited by NAAC with 'A' Grade)**

**2019-2023**

Chirala Engineering College, CHIRALA

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(ISO certified, A-Grade by APSCHE, Govt. of Andhra Pradesh)

**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**



**BONAFIDE CERTIFICATE**

This is to certify that the report entitled "IDENTIFICATION AND CLASSIFICATION OF TOMATO PLANT LEAF DISEASES BY USING A NOVEL CNN" is submitted by G.SUJITHA (20E95A0405), P.MANIKANTA (19E91A0413), B.NAGATRIVENI (20E95A0403), N.NAVEEN KUMAR (19E91A0416) who is carried out under my Guidance and supervision, as a partial fulfillment for the award of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** OF J.N.T. UNIVERSITY, Kakinada during the academic year 2022-2023.

Viva voice Date 15/04/2023

(Internal Guide)

Dr. SHAIK BASHEERA M.Tech., Ph.D., MISTE, AIENG

(Head of the department)

Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

EXTERNAL EXAMINER



**A Project Report on**

**IOT BASED SMART IRRIGATION SYSTEM USING GSM FOR  
MONITORING AND CONTROL (SOLAR POWERED)**

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

**BACHELOR OF TECHNOLOGY IN  
ELECTRONICS AND COMMUNICATION ENGINEERING**

**J.N.T.UNIVERSITY, KAKINADA**

**Submitted By**

**B. RUPA BAI  
(20E95A0402)**

**T.JYOTHI  
(19E91A0409)**

**M. SANDEEP KUMAR  
(19E91A0424)**

**G.SAGAR  
(19E91A0423)**

**Under the guidance of**

**Mrs.K.BHAGYA RANI,M.Tech.,**

**Assistant Professor**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Chirala Engineering College, CHIRALA**

**(Approved by AICTE New Delhi, Affiliated to JNTUK, Kakinada**

**(Accredited by NAAC with 'A' Grade)**

**2019-2023**

Chirala Engineering College, CHIRALA  
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(Accredited by NAAC with 'A' Grade)

**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**



**BONAFIDE CERTIFICATE**

This is to certify that the report entitled "IOT BASED SMART IRRIGATION SYSTEM USING GSM FOR MONITORING AND CONTROL(SOLAR POWERED)" is submitted by **B.RUPA BAI (20E95A0402), MSANDEEP KUMAR (19E91A0424), T.JYOTHI (19E91A0409), G.SAGAR (19E91A0423)**. Who carried out under my Guidance and supervision, as a partial fulfillment for the award of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** OF J.N.T.UNIVERSITY, Kakinada during the academic year 2022-2023.

Viva voice Date. 15/04/2023

(Internal Guide) *k-Bhagyarani*  
Mrs.K.BHAGYA RANI, M.Tech.,

*[Signature]*  
(Head of the department)

Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523157

*[Signature]*  
EXTERNAL EXAMINER



**A Project Report on**  
**ENERGY EFFICIENT SERVICE IN IOT OVER PON**

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

**BACHELOR OF TECHNOLOGY IN**  
**ELECTRONICS AND COMMUNICATION ENGINEERING**

**J.N.T.UNIVERSITY, KAKINADA**

**Submitted By**

**MOPIDEVI.RENUKA**  
**(19E91A0422)**

**UMMITI.GAVYANAGASRE**  
**(19E91A0407)**

**JANDHAYAM.VANDANA**  
**(19E91A0408)**

**PINNIBOINA.MANI TEJA**  
**(19E91A0412)**

**Under the guidance of**

**Mr. MURLA BHUMI REDDY**

**M.Tech,(Ph.D.), SIM:IEEE,OSA,SPIE**

**Associate Professor**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION**  
**ENGINEERING**

**Chirala Engineering College, CHIRALA**

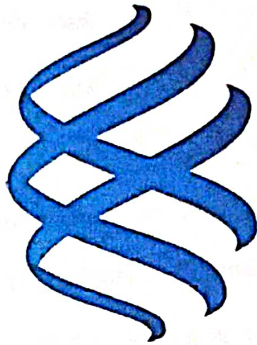
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**(Accredited by NAAC with 'A' Grade)**

**2019-2023**

Chirala Engineering College, CHIRALA  
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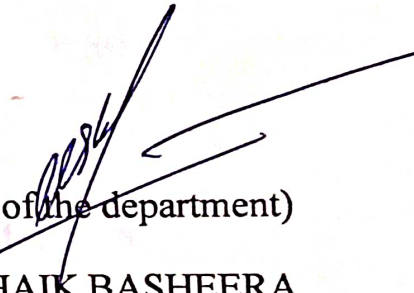
**BONAFIDE CERTIFICATE**

This is to certify that the report entitled "**ENERGY EFFICIENT SERVICE IN IOT OVER PON**" is submitted by **M.RENUKA (19E91A0422)**, **U.GAVYA NAGASRI(19E91A0407)**, **J.VANDANA (19E91A0408)**, **P. MANI TEJA (19E91A0412)**. Who has carried out under my Guidance and supervision, as a partial fulfillment for the award of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** OF J.N.T.UNIVERSITY, Kakinada during the academic year 2022-2023.

Viva voice Date 15/04/2023

  
(Internal Guide)

Mr.Murla Bhumi Reddy

  
(Head of the department)

Dr. SHAIK BASHEERA  
Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE

  
EXTERNAL EXAMINER

CHIRALA-523157



**A Project Report on**  
**DESIGN AND IMPLEMENTATION OF**  
**AQUACULTURE MONITORING AND**  
**CONTROLLING SYSTEM**

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

**BACHELOR OF TECHNOLOGY IN**  
**ELECTRONICS AND COMMUNICATION ENGINEERING**

**J.N.T. UNIVERSITY, KAKINADA**

**Submitted by**

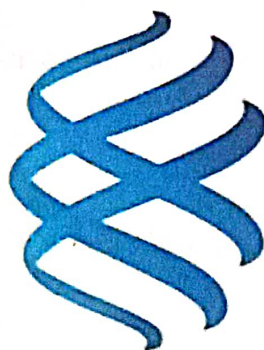
**G.SRUTHI CHANDHRA VALLIKA**      **E.LAHARI NAGASAI**  
**(19E91A0427)**                              **(19E91A0410)**

**K.UMESH CHANDRA**                      **P.AKHIL**  
**(19E91A0430)**                              **(19E91A0401)**

**Under the guidance of**

**Ms.N.HIMABINDU,M.Tech.,**

**Assistant Professor**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION**  
**ENGINEERING**

**Chirala Engineering College, CHIRALA**

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

**(Accredited by NAAC with 'A' Grade)**

**2019-2023**

Chirala Engineering College, CHIRALA

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(Accredited by NAAC with 'A' Grade)

DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the report entitled "DESIGN AND IMPLEMENTATION OF AQUACULTURE MONITORING AND CONTROLLING SYSTEM" is submitted by **G.SRUTHI CHANDHRA VALLIKA (19E91A0427)**, **E.LAHARI NAGASAI (19E91A0410)**, **K.UMESH CHANDRA (19E91A0430)**, **P.AKHIL (19E91A0401)**. Who is carried out under my Guidance and supervision, as a partial fulfillment for the award of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** OF J.N.T.UNIVERSITY, Kakinada during the academic year 2022-2023.

Viva voice Date. 15/10/2023

(Internal Guide)

Ms.N.HIMA BINDU, M.Tech.,

(Head of the department)

Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523157

EXTERNAL EXAMINER



**A Project Report on**

**An innovative Miniaturized Di-Band Ultra Wide-Band  
(UWB) Circular Slot antenna**

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

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**J.N.T. UNIVERSITY, KAKINADA**

**Submitted**

**By**

**Penumala.Pavani**

**(19E91A0418)**

**Midatha.Nagamani**

**(20E95A0410)**

**Under the guidance of**

**Ms.R.Radha Kumari M.Tech.,(Ph.D)**

**Associate professor**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Chirala Engineering College, CHIRALA**

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

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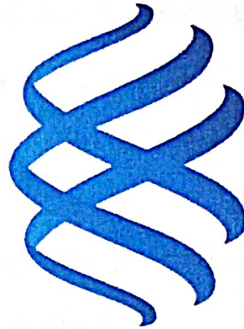
**2019-2023.**

Chirala Engineering College, CHIRALA

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**



**BONAFIDE CERTIFICATE**

This is to certify that the report entitled “**An innovative Miniaturized Di-Band Ultra Wide-Band (UWB) Circular Slot antenna**” is submitted by **P.Pavani(19E91A0418),M.Nagamani(20E95A0410)**. Who has carried out under my Guidance and supervision, as a partial fulfillment for the award of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING J.N.T.UNIVERSITY, Kakinada** during the academic year 2022-2023.

Viva voice Date...15-04-23.

R. Radha Kumari

(Internal Guide)

Ms.R.Radha Kumari

M.Tech.,(Ph.D)

(Head of the department)

Dr.Shaik Bhasheera

M.Tech.,Ph.D.,  
Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

EXTERNAL EXAMINER



A project report on  
**EFFICIENT FIR FILTER BY USING BOOTH MULTIPLIER AND  
FREQUENCY SAMPLING METHOD**

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

**BACHELOR OF TECHNOLOGY IN  
ELECTRONICS & COMMUNICATION ENGINEERING  
J.N.T. UNIVERSITY, KAKINADA**

Submitted by

**M.RAMYA SAI**

**(19E91A0421)**

**T. SRAVANI**

**(19E91A0426)**

**K. VARA LAKSHMI**

**(19E91A0431)**

**T. PRUDHVI RAJ**

**(19E91A0419)**

Under the Esteemed Guidance of

**Miss. R. RADHA KUMARI B.TECH., M..TECH..(PH.D)..**

Associate Professor

Department of ECE



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ENGINEERING**

Chirala Engineering College: Chirala

(Approved by AICTE- New Delhi & Affiliated to JNTU Kakinada, Accredu=lated by NAAC  
with "A" Grade)

2019-2023

## CHIRALA ENGINEERING COLLEGE, CHIRALA

(Approved by AICTE- New Delhi & Affiliated to JNTU Kakinada. Accredited by NAAC  
with "A" Grade)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



**CHIRALA**  
ENGINEERING COLLEGE

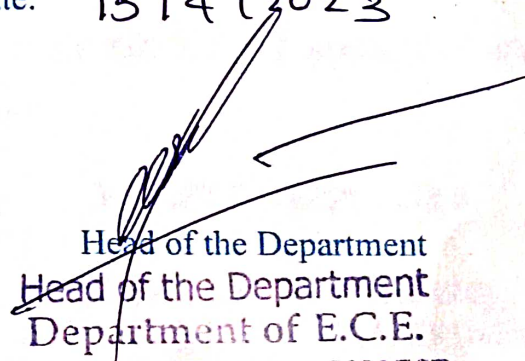
Where Professionalism Speaks

### BONAFIDE CERTIFICATE

This is to certify that the project report entitled "EFFICIENT FIR FILTER BY USING BOOTH MULTIPLIER AND FREQUENCY SAMPLING METHOD" is submitted by **M.RAMYA SAI(19E91A0421)**, **K.VARA LAKSHMI (19E91A0431)**, **T.SRAVANI (19E91A0426)**, **T. PRUDHVI RAJ (19E91A0419)**, in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING is a record of bonafide work carried out by them under our supervision during the academic year 2022-2023.

Viva Voce Date: 15/4/2023

  
Internal Guide

  
Head of the Department  
Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523157

  
External Examiner



A Project report on  
**YOLOv4 AF: A NEW VEHICLE DETECTION AND  
CLASSIFICATION MODEL**

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

**BACHELOR OF TECHNOLOGY**

**IN**

**DEPARTMENT OF COMPUTER SCIENCE AND  
ENGINEERING**

**BY**

**A.VENKATA KRISHNA REDDY**

**Regd. No. 19E91A0539**

**K.VAMSI KRISHNA**

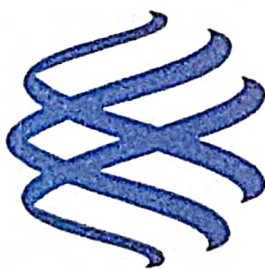
**Regd. No. 19E91A0537**

**D.PRUDHVI**

**Regd. No. 19E91A0522**

**UNDER GUIDANCE OF**

**MR. N.MOULALI , M.Tech**  
**(Assistant Professor, CSE & IT Department)**



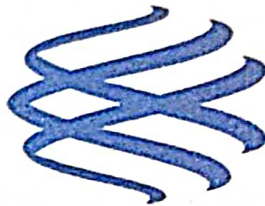
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)**  
Ramapuram Beach Road, Chirala, PRAKASHAM (DIST) Andhra Pradesh, -  
523157  
**(Affiliated to JNTUK, Kaklnada)**

**2022-2023**

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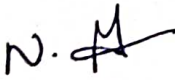
Ramapuram Beach Road, Chirala, PRAKASHAM (DIST) Andhra Pradesh, -523157  
(Affiliated to JNTUK, Kakinada)


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that this is the Bonafide record of the Seminar Title **YOLOV4 AF: A NEW VEHICLE DETECTION AND CLASSIFICATION MODEL** is submitted by **A.VENKAT KRISHNA** Regd. No.19E91A0539 **K.VAMSI KRISHNA** Regd. No. 19E91A0537 , , **D.PRUDHVI** Regd. No. 19E91A0522 of B. Tech in the partial fulfillment of the requirements for the part-I instructions of project in the degree of Bachelor of Technology from Computer Science and Engineering, to **CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)**, affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK) and this Bonafide work carried out by them.

  
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Head of the Department  
Head of the Department  
Department of C.S.E.  
**CHIRALA ENGINEERING COLLEGE**  
CHIRALA-523157

  
EXTERNAL EXAMINER



**A Project report**  
**on**  
**FACE RECOGNITION AND VERIFICATION USING CONVOLUTION**  
**NEURAL NETWORK**

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

**BACHELOR OF TECHNOLOGY**

**IN**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**PRESENTED BY**

**VASAVI KRISHNA SRI CHUKKA**

**Regd.No.19E91A0538**

**SHARON KHAMBAM**

**Regd.No.19E91A0529**

**RAJYALAKSHMI PONNURU**

**Regd.No.20E95A0502**

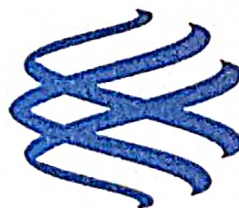
**KRANTHI TAMALAPAKULA**

**Regd.No.19E91A0514**

**UNDER GUIDANCE OF**

**P.BHAGAVANDAS, M.Tech.,**

**(ASSISTANT PROFESSOR)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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**Ramapuram Beach Road, Chirala, PRAKASHAM (DIST) Andhra Pradesh, -523157**

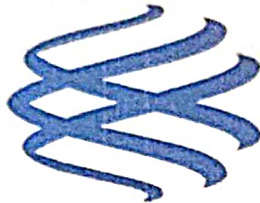
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**2022-2023**

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(Affiliated to JNTUK, Kakinada)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**CERTIFICATE**

This is to certify that this is the bonafide record of the Seminar Title **FACE RECOGNITION AND VERIFICATION USING CONVOLUTION NEURAL NETWORK** is submitted by K. SHARON Regd. No. 19E91A0529 of B.Tech in the partial fulfillment of the requirements for the degree of Bachelor of Technology from Computer Science and Engineering, to CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9), affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK) and this bonafide work carried out by them.

*P. Bhargava*  
Internal Guide

*Sripada*  
Head of the Department

*Chitra*  
EXTERNAL EXAMINER



# **FAKE IMAGE DETECTION USING MACHINE LEARNING**

**A  
Project report**

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

**BACHELOR OF TECHNOLOGY**

**IN**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**BY**

**K. DEVIKA RANI**

**Regd. No. 19E91A0506**

**B. HARINATH REDDY**

**Regd. No. 19E91A0509**

**K. VENKAT SURYA TEJA ASHOK**

**Regd. No. 19E91A0541**

**UNDER GUIDANCE OF**

**P. GANGA BHAVANI, M. Tech (Ph. D)**

**(Associate Professor)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)**

**Ramapuram Beach Road, Chirala, PRAKASHAM (DIST) Andhra Pradesh-523157**

**(Affiliated to JNTUK, Kakinada)**

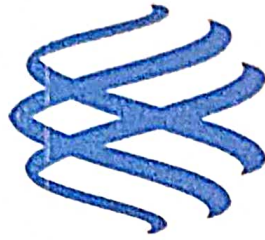
**2022-2023**

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(Affiliated to JNTUK, Kakinada)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that this is the bonafide record of the project Title **FAKE IMAGE DETECTION USING MACHINE LEARNING** is submitted by **K. DEVIKA RANI**, Regd. No. 19E91A0506, **B .HARINATH REDDY**, Regd. No. 19E91A0509, **K.VENKATA SURYA TEJA ASHOK**, Regd. No. 19E91A0541, of IV B. Tech in the partial fulfilment of the requirements of the project in the degree of Bachelor of Technology from Computer Science and Engineering to **CHIRALA ENGINEERING COLLEGE, CHIRALA** affiliated to Jawaharlal Nehru Technological University, Kakinada and this bonafide work carried out by them.

INTERNAL GUIDE

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EXTERNAL EXAMINER



**A Project Report**  
**on**  
**MACHINE LEARNING APPROACHES TO ACCURATELY**  
**PREDICT THE ED LOS OF COVID-19 PATIENTS**

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

**BACHELOR OF TECHNOLOGY**

**IN**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**BY**

**LAHARI KOTHAMASU**

**Regd.No.19E91A0515**

**AKHILA CHALLA**

**Regd.No.19E91A0503**

**MAHESH CHANDA**

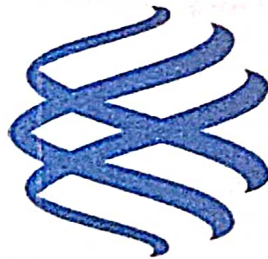
**Redg.No.19E91A0518**

**venu MADHAV MUKIRI**

**Regd.No.19E91A0543**

**UNDER THE GUIDANCE OF**

**Mr. K. RAMESH BABU, M. Tech**  
**(Associate Professor)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CHIRALA ENGINEERING COLLEGE, CHIRALA(CECC-E9)**

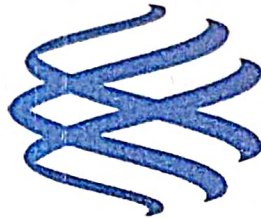
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**2022-2023**

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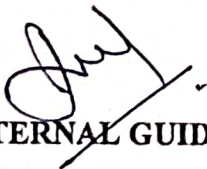
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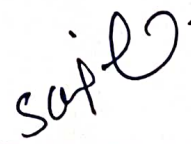
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that this is the bonafide record of the project Title “MACHINE LEARNING APPROACHES TO ACCURATELY PREDICT THE ED LOS OF COVID-19” is submitted by LAHARI KOTHAMASU, Regd.No.19E91A0515, AKHILA CHALLA, Regd.No.19E91A0503, MAHESH CHANDA, Regd.No.19E91A0518 , VENU MADHAV MUKIRI , Regd.No.19E91A0543 of B. Tech in the partial fulfilment of the requirements of the project in the degree of Bachelor of Technology from Computer Science and Engineering to CHIRALA ENGINEERING COLLEGE, CHIRALA affiliated to Jawaharlal Nehru Technological University, Kakinada and this bonafide work carried out by them.

  
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CHIRALA-523157

  
EXTERNAL EXAMINER



**A Project report**  
**on**  
**TASK FAILURE PREDICTION IN CLOUD DATA CENTERS**  
**USING DEEP LEARNING**

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

**BACHELOR OF TECHNOLOGY**

**IN**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**BY**

**DURGASRI POLISETTY**

**Regd. No.19E91A0507**

**SANNIBABU CHELLI**

**Regd.No.19E91A0526**

**SIVAKESAVA JAMPANI**

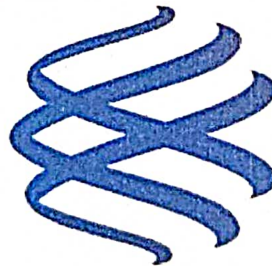
**Regd. No.19E91A0530**

**KARTHIKBABU RETURU**

**Regd.No.19E91A0512**

**UNDER GUIDANCE OF**

**N.MONIKA, M.Tech**  
**(Associate Professor)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)**

**Ramapuram Beach Road, Chirala, BAPATLA (DIST) Andhra Pradesh-**  
**523157 (Affiliated to JNTUK, Kaklnada)**

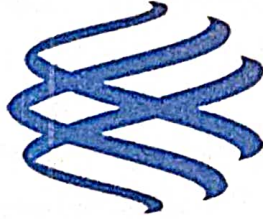
**2022-2023**

# CHIRALA ENGINEERING COLLEGE::CHIRALA

Ramapuram Beach Road, Chirala, BAPATLA (DIST) Andhra Pradesh,

-523157(Affiliated to JNTUK, Kakinada)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that this is the bonafide record of the project Title "Task Failure Prediction In Cloud Data Centers Using Deep Learning" is submitted by DURGASRI POLISETTY ,Regd.No.19E91A0507, SANNIBABU CHELLI, Regd.No. 19E91A0526, SIVAKESAVA JAMPANI, Regd.No.19E91A0530, KARTHIK BABU RETURU Regd.No. 19E91A0512 of B.Tech in the partial fulfilment of the requirements of the project in the degree of Bachelor of Technology from Computer Science and Engineering to CHIRALA ENGINEERING COLLEGE, CHIRALA affiliated to Jawaharlal Nehru Technological University, Kakinada and this bonafied work carried out by them.

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Department of C.S.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

EXTERNAL EXAMINER



A Project report

on

**FACE RECOGNITION AND VERIFICATION USING CONVOLUTION  
NEURAL NETWORK**

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

**BACHELOR OF TECHNOLOGY**

IN

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**PRESENTED BY**

VASAVI KRISHNA SRI CHUKKA

Regd.No.19E91A0538

SHARON KHAMBAM

Regd.No.19E91A0529

RAJYALAKSHMI PONNURU

Regd.No.20E95A0502

KRANTHI TAMALAPAKULA

Regd.No.19E91A0514

**UNDER GUIDANCE OF**

**P.BHAGAVANDAS, M.Tech.,**

**(ASSISTANT PROFESSOR)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)**  
**Ramapuram Beach Road, Chirala, PRAKASAM (DIST) Andhra Pradesh, -523157**

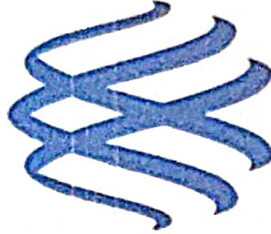
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**2022-2023**

**CHIRALA ENGINEERING COLLEGE::CHIRALA**

Ramapuram Beach Road, Chirala, PRAKASAM (DIST) Andhra Pradesh, -523157  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**CERTIFICATE**

This is to certify that this is the bonafide record of the Seminar Title **FACE RECOGNITION AND VERIFICATION USING CONVOLUTIONAL NEURAL NETWORK** IS submitted by CH.VASAVI KRISHNA SRI RegdNo:19E91A0538, P.RAJYA LAKSHMI RegdNo:20E95A0502, K.SHARON RegdNo:19E91A0529, T.KRANTHI RegdNo:19E91A0514 of B. Tech in the partial fulfillment of the requirements for the part-II instructions of project in the degree of Bachelor of Technology from Computer Science and Engineering, to CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9), affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK) and this bonafide work carried out by them.

*P. Khyasudha*  
Internal Guide

*Sujit*  
Head of the Department

*Ahmed*  
EXTERNAL EXAMINER



A Project report on  
**CREDIT CARD FRAUD DETECTION USING  
MACHINE LEARNING**

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

**BACHELOR OF TECHNOLOGY**

**IN**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**PRESENTED BY**

**SUPRIYA GUTTHI**

**Regd.No.19E91A0534**

**KALAPANA PRIYA KANCHARALA**

**Regd.No.20E95A0501**

**SRINIVAS CHANDOLU**

**Regd No.19E91A0533**

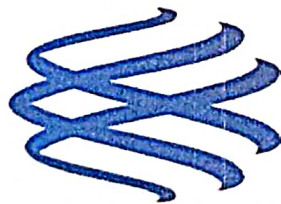
**SIVANAGARAJU SERU**

**Regd.No.19E91A0531**

**UNDER GUIDANCE OF**

**MR.MD.ISMAIL KHAN**

**(ASSISTANT PROFESSOR)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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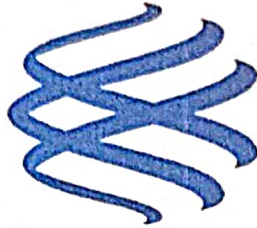
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523157(Affiliated to JNTUK, Kakinada)


**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is to certify that this is the bonafide record of the Seminar Title **CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING** is submitted by **G.SUPRIYA** RegdNo.19E91A0534, **K.KALAPANAPRIYA** RegdNo.20E95A0501, **CH.SRINIVAS** RegdNo.19E91A0533, **S.SIVANAGARAJU** RegdNo.19E91A0531 of B. Tech in the partial fulfillment of the requirements for the part-II instructions of project in the degree of Bachelor of Technology from Computer Science and Engineering, to CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9), affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK) and this bonafide work carried out by them.

  
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**EXTERNAL EXAMINER**

**Head of the Department  
Department of C.S.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523157**



A Project report on  
**DIABETES PREDICTION USING MACHINE LEARNING  
TECHNIQUES**

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

**BACHELOR OF TECHNOLOGY**

IN

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

BY

**FAKURUDDIN SHAIK**

**Regd. No. 19E91A0508**

**LAKSHMI SRI VERABATHINI**

**Regd. No. 19E91A0516**

**SARAVANA KRISHNA DEVU**

**Regd. No. 19E91A0527**

**VENKATA SAI BANDAPALLI**

**Regd. No. 19E91A0540**

**UNDER GUIDANCE OF**

**G. NAGARAJU, M. TECH (NIT, WARANGAL)  
(ASSOCIATE PROFESSOR)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)**

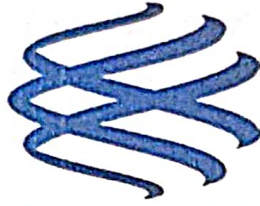
**Ramapuram Beach Road, Chirala, BAPATLA (DIST) Andhra Pradesh, -523157  
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**2022-2023**

# CHIRALA ENGINEERING COLLEGE: CHIRALA

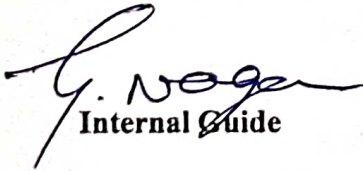
Ramapuram Beach Road, Chirala, PRAKASHAM (DIST) Andhra Pradesh,  
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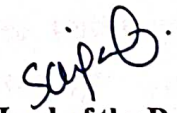
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that this is the Bonafide record of the Seminar Title "DIABETES PREDICTION USING MACHINE LEARNING TECHNIQUES" is submitted by FAKURUDDIN SHAIK Regd. No. 19E91A0508 ,LAKSHMI SRI VERABATHINI Regd. No. 19E91A0516 ,SARAVANA KRISHNA DEVU Regd.No. 19E91A0527, VENKATA SAI BANDAPALLI Regd.No.19E91A0540 of B.Tech in the partial fulfillment of the requirements for the instructions of project in the degree of Bachelor of Technology from Computer Science and Engineering, to CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9), affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK) and this Bonafide work carried out by them.

  
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Head of the Department  
Head of the Department  
Department of C.S.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

  
EXTERNAL EXAMINER



**A Project Report**

**on**

**A DEEP LEARNING-BASED METHOD TO DETECT  
SAFETY HELMET WEARING AT A SATISFACTORY  
ACCURACY WITH HIGH DETECTION SPEED**

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

**BACHELOR OF TECHNOLOGY**

**IN**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**BY**

**P. NAGA MALLESWARI**

**Regd. No. 19E91A0520**

**K. AKHIL BABU**

**Regd. No. 19E91A0502**

**K.ANUSHA**

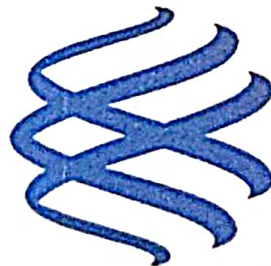
**Regd. No. 19E91A0505**

**A.RITHWIK SEKHAR**

**Regd. No. 19E91A0524**

**UNDER GUIDANCE OF**

**Mr. A. YUGANDHARA REDDY, M.Tech  
Assistant Professor, CSE**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)**

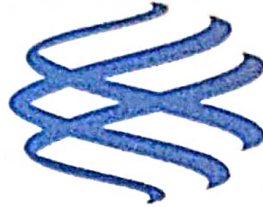
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**2022-2023**

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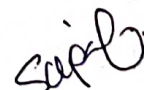
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that this is the Bonafede record of the project Title A DEEP LEARNING-BASED METHOD TO DETECT SAFETY HELMET WEARING AT A SATISFACTORY ACCURACY WITH HIGH DETECTION SPEED is submitted by P. NAGA MALLESWARI Regd. No. 19E91A0520, K. ANUSHA Regd. No. 19E91A0505, K. AKHIL BABU Regd. No. 19E91A0502, A. RITHWIK SEKHAR Regd. No. 19E91A0524 Of B. Tech in the partial fulfillment of the requirements for the part-I instructions of project in the degree of Bachelor of Technology from Computer Science and Engineering, to CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9), affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK) and this Bonafede work carried out by them.

  
INTERNAL GUIDE

  
HEAD OF THE DEPARTMENT  
Head of the Department  
Department of C.S.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523157

  
EXTERNAL EXAMINER



A Project report on  
**MACHINE LEARNING BASED HEALTHCARE SYSTEM FOR  
INVESTIGATING THE ASSOCIATION BETWEEN DEPRESSION AND  
QUALITY OF LIFE**

Submitted in partial fulfilment of the requirements for the award of the  
degree of  
**BACHELOR OF TECHNOLOGY**  
**IN**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**BY**

**S.INDHU CHERISHMA**

Regd.No. 20E95A0504

**SK.AMREEN**

Regd.No 19E91A0504

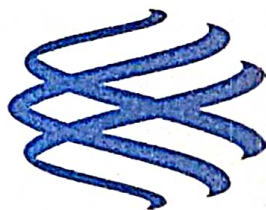
**B.PAVAN KUMAR**

Regd.No 19E91A0521

**M.SAI KRISHNA**

Regd.No 19E91A0525

**UNDER GUIDENCE OF**  
**Dr.C.V.C.UDAYA BHASKAR**  
**(Assistant Professor)**



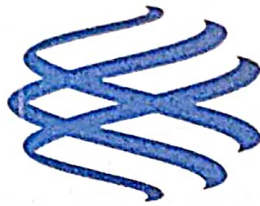
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**CHIRALA ENGINEERING COLLEGE, CHIRALA(CECC-E9)**  
**2022-2023**

# CHIRALA ENGINEERING COLLEGE : CHIRALA

Ramapuram Beach Road, Chirala, PRAKASHAM (DIST) Andhra Pradesh -523157


(Affiliated to JNTUK, Kakinada)


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that this is the Bonafide record of the Seminar Title “MACHINE LEARNING BASED HEALTHCARE SYSTEM FOR INVESTIGATING THE ASSOCIATION BETWEEN DEPRESSION AND QUALITY OF LIFE” is submitted by S.INDHU CHERISHMA Regd.No. 20E95A0504 ,SK.AMREEN Regd.No 19E91A0504,B.PAVAN KUMAR,Regd.No 19E91A0521M.SAI KRISHNA Regd.No 19E91A0525 of B. Tech in the partial fulfillment of the requirements for the part-I instructions of project in the degree of Bachelor of Technology from Computer Science and Engineering, to CHIRALA ENGINEERING COLLEGE, CHIRALA affiliated to Jawaharlal Nehru Technological University Kakinada and this Bonafide work carried out by them.

  
INTERNAL GUIDE

  
HEAD OF THE DEPARTMENT  
Head of the Department  
Department of C.S.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

  
EXTERNAL EXAMINER



**A Project report  
on**

**REAL OBJECT DETECTION USING PYTHON**

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

**BACHELOR OF TECHNOLOGY**

**IN**

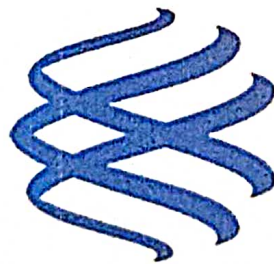
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**BY**

<b>RAJA RAJESWARI RAVELLA</b>	<b>Regd. No. 19E91A0523</b>
<b>IRSHAD MOHAMMAD</b>	<b>Regd. No. 19E91A0511</b>
<b>SIVARAM GOLLA</b>	<b>Regd. No. 19E91A0532</b>
<b>VENKATA YASWANTH BATTINA</b>	<b>Regd. No. 19E91A0542</b>

**UNDER GUIDANCE OF**

**Dr.B.SRIKANTH, Ph.D  
(Associate Professor)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)**

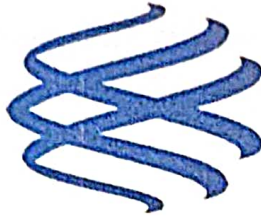
**Ramapuram Beach Road, Chirala, BAPATLA (DIST) Andhra Pradesh-523157  
(Affiliated to JNTUK, Kakinada)**

**2022-2023**

# CHIRALA ENGINEERING COLLEGE::CHIRALA

Ramapuram Beach Road, Chirala, BAPATLA (DIST) Andhra Pradesh, -523157  
(Affiliated to JNTUK, Kakinada)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that this is the bonafide record of the project Title **REAL OBJECT DETECTION USING PYTHON** is submitted by **RAJA RAJESWARI RAVELLA** Regd.No. 19E91A0523, **MOHAMMAD IRSHAD**, Regd.No. 19E91A0511, **SIVARAM GOLLA** Regd. No. 19E91A0532, **VENKATA YASWANTH BATTINA** Regd. No. 19E91A0542 of B.Tech in the partial fulfilment of the requirements of the project in the degree of Bachelor of Technology from Computer Science and Engineering to **CHIRALA ENGINEERING COLLEGE, CHIRALA** affiliated to Jawaharlal Nehru Technological University, Kakinada and this bonafide work carried out by them.

INTERNAL GUIDE

HEAD OF THE DEPARTMENT  
Head of the Department  
Department of C.S.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523157

EXTERNAL EXAMINER



**Design Of Portland Pozzolna Cement**  
**Concrete Cubes With**  
**The Use Of Cigarette Butts & Paraffin wax**

*A project Report*  
*Submitted in partial fulfillment of the requirements for*  
*the award of the degree of*

**BACHELOR OF TECHNOLOGY**  
**IN**  
**CIVIL ENGINEERING**

Submitted by  
**PERISETLA PRASAD**  
**(17E95A0117)**

UNDER THE GUIDANCE OF  
**Ms. K.POORNIMA RAJYALAKSHMI M.TECH**  
Assistant professor of civil engineering



**DEPARTMENT OF CIVIL ENGINEERING**  
**CHIRALA ENGINEERING COLLEGE**

Awarded 'A' Grade by APSCHE, Accredited by NAAC  
(Approved by AICTE and Affiliated to JNTUK – Kakinada)  
Chirala , Bapatla District, AP, India. Pin – 523157.

**2022-2023.**

DEPARTMENT OF CIVIL ENGINEERING  
CHIRALA ENGINEERING COLLEGE  
CHIRALA - 522 157 (A.P)



**BONAFIDE CERTIFICATE**

Certified that this project report "*DESIGN OF PPC CONCRETE CUBES WITH THE USE OF CIGARETTE BUTTS (CELLULOSE ACETATE)*" is the bonafide work of by "*PERISETLA PRASAD (17E95A0117)*", who carried out the project work under the supervision during the year 2022-23, towards partial fulfillment of the requirements of the degree of bachelor of technology in civil engineering from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other university for the award of any degree.

**Project Supervisor**

**Head of the Department**

**Ms. K.POORNIMA RAJYALAKSHMI ,M.Tech**

(Assistant professor)

Department of Civil Engineering

**Ms.A DHANA LAKSHMI,M.TECH**

(Head & professor)

Department of Civil Engineering

**Head**

**Department of Civil Engineering  
Chirala Engineering College, Chirala**

External viva voice conducted on :- 13/04/2023

**Internal Examiner**

**External Examiner**

**CHIRALA ENGINEERING COLLEGE**



**EXPERIMENTAL STUDY ON PARTIAL  
REPLACEMENT OF FINE AGGREGATE BY  
USING RICEHUSK FOR M20 GRADE**

**SUBMITTED BY**

**V. PAVAN(19E91A0106)**

**CH.VENKATESH(19E91A0109)**

**R.RANI (19E91A0107)**

**K.K. CHAITANYA(19E91A0103)**

**B. RAVALI(20E95A0101)**

**UNDER THE ESTEEMED GUIDANCE**

**A.DHANA LAKSHMI , M.TECH**

**Assistant Professor**



**CHIRALA**  
**ENGINEERING COLLEGE**

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CHIRALA ENGINEERING COLLEGE :: CHIRALA

**BONAFIDE CERTIFICATE**

Certified that this project report "PARTIAL REPLACEMENT OF FINEAGGREGATE USING RICE HUSK " is the bonafide work of by "V.PAVAN (19E91A0106), CH.VENKATESH (19E91A0109),K.K CHAITANYA (19E91A0103),R.RANI (19E91A0107),B.RAVAI (20E95A0101)", who carried out the project work under the supervision during the year 2022-23, towards partial fulfillment of the requirements of the degree of bachelor of technology in civil engineering from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other university for the award of any degree.



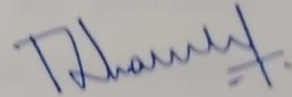
Signature of the head of the department

Ms.A.DHANA LAKSHMI M.Tech

Department of civil engineering

Head

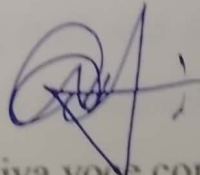
Department of Civil Engineering  
Chirala Engineering College, Chirala



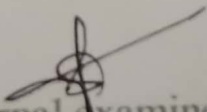
signature of the supervision

Ms.A.DHANA LAKSHMI M.Tech

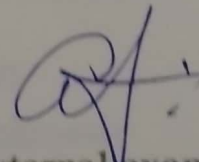
Department of civil engineering



External viva voce conducted on 13/04/23



Internal examiner



External examiner



**EXPERIMENTAL STUDY ON PARTIAL  
REPLACEMENT OF FINE AGGREGATE BY  
USING RICEHUSK FOR M20 GRADE**

**SUBMITTED BY**

**V. PAVAN(19E91A0106)**

**CH.VENKATESH(19E91A0109)**

**R.RANI (19E91A0107)**

**K.K. CHAITANYA(19E91A0103)**

**B. RAVALI(20E95A0101)**

**UNDER THE ESTEEMED GUIDANCE**

**A.DHANA LAKSHMI , M.TECH**

**Assistant Professor**



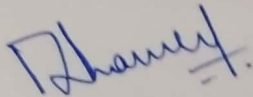
**CHIRALA  
ENGINEERING COLLEGE**

Where Professionalism Speaks

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**BONAFIDE CERTIFICATE**

Certified that this project report "PARTIAL REPLACEMENT OF FINEAGGREGATE USING RICE HUSK " is the bonafide work of by "V.PAVAN (19E91A0106), CH.VENKATESH (19E91A0109),K.K CHAITANYA (19E91A0103),R.RANI (19E91A0107),B.RAVAI (20E95A0101)", who carried out the project work under the supervision during the year 2022-23, towards partial fulfillment of the requirements of the degree of bachelor of technology in civil engineering from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other university for the award of any degree.



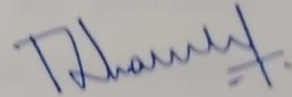
Signature of the head of the department

Ms.A.DHANA LAKSHMI M.Tech

Department of civil engineering

Head

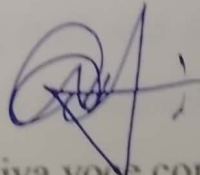
Department of Civil Engineering  
Chirala Engineering College, Chirala



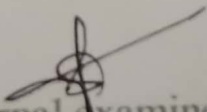
signature of the supervision

Ms.A.DHANA LAKSHMI M.Tech

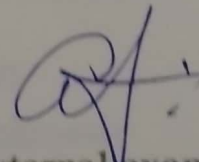
Department of civil engineering



External viva voce conducted on 13/04/23



Internal examiner



External examiner



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**



**A Project Report On**

**AC VOLTAGE AND REACTIVE POWER CONTROL OF LCC  
HVDC SYSTEM WITH CAPACITOR CONTROLL**

**SUBMITTED TO**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**

**Submitted in Partial Fulfillment of the Requirements for the Award of the Degree of**

**BACHELOR OF TECHNOLOGY  
IN  
ELECTRICAL AND ELECTRONICS ENGINEERING**

**Submitted By**

<b>J. MANOJ</b>	<b>(20E95A0205)</b>
<b>M. RAJKUMAR</b>	<b>(20E95A0206)</b>
<b>G. NAGA MALLESWARA RAO</b>	<b>(20E95A0204)</b>
<b>Y. VENU</b>	<b>(20E95A0210)</b>

**Under the Esteemed Guidance of**

**Miss. PSKL. ANUHYA M. Tech  
Assistant professor**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
CHIRALA ENGINEERING COLLEGE**

**(An ISO 9001:2008 Certified institution & accredited by NAAC with "a" Grade)  
(Approved by A.I.C.T.E & Affiliated to JNTUK, Kakinada)  
Rama Puram, Bapatla dist-523157, Andhra Pradesh**

# CHIRALA ENGINEERING COLLEGE

(An ISO 9001:2008 Certified institution & accredited by NAAC with "a" Grade)

(Approved by A.I.C.T.E & Affiliated to JNTUK, Kakinada)

Rama Puram, Bapatla dist-523157, Andhra Pradesh

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled "AC VOLTAGE AND REACTIVE POWER CONTROL OF LCC HVDC SYSTEM WITH CAPACITOR CONTROLL" is a bonfide record of work by J. MANOJ (20E95A0205), M. RAJKUMAR (20E95A0205), G. NAGA MALLESWARA RAO (20E95A0204), Y. VENU (20E95A0210) submitted in partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY IN ELECTRICAL & ELECTRONICS ENGINEERING J.N.T.U.K, Kakinada during the academic year 2018-2019. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

Date:

P.S.K.L Anuhya.  
Signature of Project Guide

Miss. PSKL. ANUHYA M. Tech  
Assistant professor

  
Signature of HOD

Mr. B. KOTESWARA RAO, MTech  
Assistant professor

B. Houdi  
EXTERNAL EXAMINER

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**A Project Report**

**IMPLEMENTATION OF GRID CONNECTED SOLAR PV SYSTEM**

**Submitted to**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

**In partial fulfillment of the required for the award of the degree of**

***BACHELOR OF TECHNOLOGY***

**IN**

***ELECTRICAL & ELECTRONICS ENGINEERING***

**Submitted By**

**VEMULA ANIL KUMAR**

**(20E95A0209)**

**BADDIPUDI MAHESH**

**(20E95A0201)**

**SHAIK NAMEESHA NAJ**

**(19E91A0201)**

**TELLA YESU BABU**

**(19E91A0202)**

**Under the Esteemed Guidance of**

**Mr. B.KOTESWARA RAO M.Tech**

**Assist. professor of the EEE Department**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
CHIRALA ENGINEERING COLLEGE, CHIRALA**

**(Approved by AICTE, NEW DELHI & Affiliated to JNTUK, Kakinada)  
RAMAPURAM, BAPATLA DIST, CHIRALA-523157, ANDHRA PRADESH, INDIA.**



# CHIRALA ENGINEERING COLLEGE

(Approved by A.I.C.T.E, NEW DELHI & Affiliated to JNTUK, Kakinada)

RAMAPURAM, BAPATLA DIST, CHIRALA-523157, ANDHRA PRADESH, INDIA.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



## CERTIFICATE

This is certify that the Project report entitled “IMPLEMENTATION OF GRID CONNECTED SOLAR PV” That is a bonafide record of Work done by “VEMULA ANIL KUMAR(20E95A0209), BADDIPUDI MAHESH (20E95A0201), SHAIK NAMEESHA NAJ(19E91A0201) , TELLA YESU BABU(19E91A0202)” submitted in Partial fulfillment of the requirements for the award of degree of Bachelor of Technology in “ELECTRICAL & ELECTRICAL ENGINEERING” to the JNTU, KAKINADA during the academic year 2020-23. The results embodied In this Project report have not been submitted to any other Universities or Institute for the award of any degree.

Date:

  
Signature of Guide

Mr. B. KOTESWARA RAO M.Tech

Assist. Professor

Chirala Engineering College

  
Signature of HOD

Mr. B. KOTESWARA RAO M.Tech

Head of EEE Dept

Chirala Engineering College

  
EXTERNAL EXAMINAR

JAAHWARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**A Project Report on**

**THREE PHASE SHUNT ACTIVE FILTER INTERFACING RENEWABLE  
ENERGY SOURCE WITH POWER GRID**

**Submitted to**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**

**In partial fulfillment of the required for the award of the degree of**

**BACHELOR OF TECHNOLOGY  
IN  
ELECTRICAL & ELECTRONICS ENGINEERING**

**Submitted By**

**CHINNAMGARI.ANIL  
(20E95A0202)**

**GANTA.ARUN SAI KUMAR  
(20E95A0203)**

**PRALAYAKAVERI.THIRUPATHI RAO  
(20E95A0207)**

**VAVILAPALLI.NAVYA SRI  
(20E95A0208)**

**Under the Esteemed Guidance of**

**Mr.B.KOTESWARA RAO M.Tech**

**Assist. professor of the EEE Department**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**CHIRALA ENGINEERING COLLEGE::CHIRALA**

**(Approved by AICTE, NEW DELHI & Affiliated to JNTUK, Kakinada)**

**RAMAPURAM, BAPATLA DIST, CHIRALA-523157, ANDHRA PRADESH, INDIA.**

## CHIRALA ENGINEERING COLLEGE, CHIRALA

(Approved by A.I.C.T.E, NEW DELHI & Affiliated to JNTUK, Kakinada)  
RAMAPURAM, BAPATLA DIST, CHIRALA-523157, ANDHRA PRADESH, INDIA.

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



### CERTIFICATE

This is to certify that the thesis entitled "**THREE PHASE SHUNT ACTIVE FILTER INTERFACING RENEWABLE ENERGY SOURCE WITH POWER GRID**", which is being submitted by **CH.ANIL (20E95A0202)**, **G.ARUN SAI KUMAR (20E95A0203)**, **P.THIRUPATHI RAO (20E95A0207)**, **V.NAVYA SRI (20E95A0208)**, in partial fulfillment for the award of **BACHELOR OF TECHNOLOGY (B.TECH.)** in **ELECTRICAL & ELECTRONICS ENGINEERING** to the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**, is a record of bonafide work carried out by him under my guidance and supervision. The result embodied in thesis have not been submitted to any other university or institute for the award of any degree or diploma. In my opinion, this thesis is of the standard required for the award of degree of B.Tech.

Signature of Guide

**Mr.B.KOTESWARA RAO M.Tech**

Assist.Professor

Chirala Engineering College

Signature of HOD

**Mr.B.KOTESWARA RAO M.Tech**

Head of EEE Dept

Chirala Engineering College

*B. Howli*  
**EXTERNAL EXAMINAR**



**IMMERSION CORROSION BEHAVIOUR OF AA 7075  
DOUBLE-SIDE FRICTION STIR WELDS**

*A Project Report  
Submitted in partial fulfillment of the  
Requirements for the award of the degree*

**BACHELOR OF TECHNOLOGY  
in  
MECHANICAL ENGINEERING**

By

**N. L C SUBRAMANYAM**  
(20E95A0309)  
**D. AKASH**  
(20E95A0304)

**J. NUTHAN KUMAR**  
(20E95A0305)  
**D. AJAY**  
(20E95A0303)

**A.WILLIAM**  
(20E95A0302)

Under the esteemed guidance of  
**Dr. T. SRINIVASA RAO, Ph.D.**

**Professor & Head**

**Department of Mechanical Engineering**



**CHIRALA**  
**ENGINEERING COLLEGE**  
Where Professionalism Speaks

**DEPARTMENT OF MECHANICAL ENGINEERING**

(Approved by A.I.C.T.E. and Affiliated to J.N.T.U., Kakinada)  
RAMAPURAM BEACH ROAD- 523157, PRAKASAM DISTRICT  
ANDHRA PRADESH, INDIA



DEPARTMENT OF MECHANICAL ENGINEERING

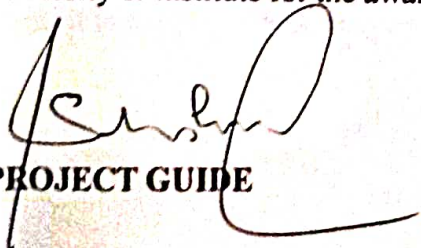


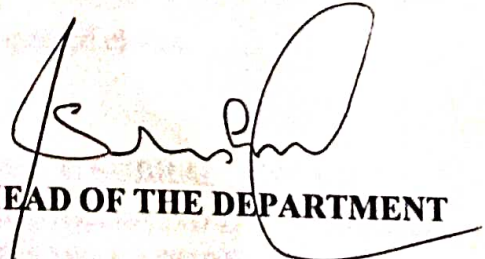
**CHIRALA**  
ENGINEERING COLLEGE  
Where Professionalism Speaks

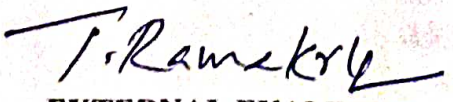
**CERTIFICATE**

This is to certify that the project report entitled “IMMERSION CORROSION BEHAVIOUR OF AA 7075 DOUBLE-SIDE FRICTION STIR WELDS”, submitted by NIZAMPATNAM LAKSHMI CHARAN SUBRAMANYAM (20E95A0309), JANGALA NUTHAN KUMAR(20E95A0305), DAPPALAPUDI AKASH(20E95A0304), DAPPALAPUDI AJAY(20E95A0303), AKKILAGUNTA WILLIAM(20E95A0302) in partial

fulfillment for the award of degree of Bachelor of Technology in Mechanical Engineering, from Chirala Engineering College, affiliated to the Jawaharlal Nehru Technological University (JNTU), Kakinada, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of degree.

  
PROJECT GUIDE

  
HEAD OF THE DEPARTMENT

  
EXTERNAL EXAMINER



**A** Grade by  
A.P State Govt.  
Accredited by NAAC

*Estd*  
**2001**  
CECC

**PITTING CORROSION BEHAVIOUR OF AA 7075 DOUBLE-  
SIDE FRICTION STIR WELDS**

*A Project Report  
Submitted in partial fulfillment of the  
Requirements for the award of the degree*

**BACHELOR OF TECHNOLOGY**  
in  
**MECHANICAL ENGINEERING**

By

**M. SAMSONU**  
(20E95A0307)  
**N. SANDEEP KUMAR**  
(20E95A0308)

**A. JASWANTH**  
(20E95A0301)  
**M. STEEVEN RAJU**  
(19E91A0303)

**K.UPENDRA BABU**  
(19E91A0304)

Under the esteemed guidance of

**Dr. T. SRINIVASA RAO, Ph.D.**

**Professor & Head**

**Department of Mechanical Engineering**



**CHIRALA**  
**ENGINEERING COLLEGE**  
Where Professionalism Speaks

**DEPARTMENT OF MECHANICAL ENGINEERING**

(Approved by A.I.C.T.E. and Affiliated to J.N.T.U., Kakinada)  
RAMAPURAM BEACH ROAD- 523157, PRAKASAM DISTRICT  
ANDHRA PRADESH, INDIA



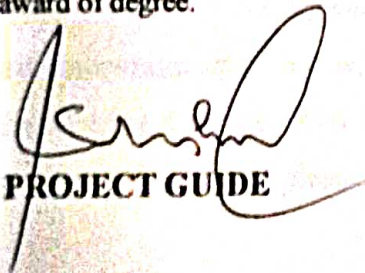
**DEPARTMENT OF MECHANICAL ENGINEERING**

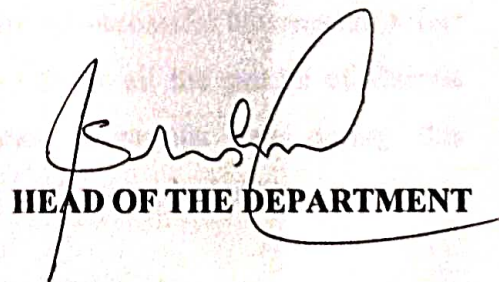


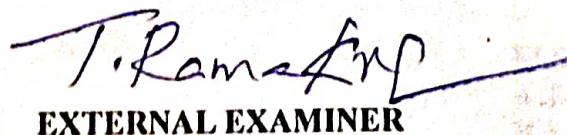
**CHIRALA**  
**ENGINEERING COLLEGE**  
Where Professionalism Speaks

**CERTIFICATE**

This is to certify that the project report entitled "PITTING CORROSION BEHAVIOUR OF AA 7075 DOUBLE-SIDE FRICTION STIR WELDS", submitted by M.SAMSONU (20E95A0307), A.JASWANTHI(20E95A0301), N.SANDEEP KUMAR(20E95A0308) .M.STEEVEN RAJU (19E91A0303), K.UPENDRA (19E91A0304) in partial fulfillment for the award of degree of Bachelor of Technology in Mechanical Engineering, from Chirala Engineering College, affiliated to the Jawaharlal Nehru Technological University (JNTU), Kakinada, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of degree.

  
**PROJECT GUIDE**

  
**HEAD OF THE DEPARTMENT**

  
**EXTERNAL EXAMINER**

PROGRAM BOOK  
FOR  
COMMUNITY SERVICE PROJECT

Name of the student: M SAI PRUDHVI RAJ

K SYAM PRASAD

SK TAJUNISSA

T AKSHA

Name of the college: CHIRALA ENGINEERING COLLAGE

Registration number: 21E95A0408

20E91A0407

20E91A0414

20E91A0417

Period of cps: from: 15/07/2022 to:27/11/22

Name and address of the community/habitation: Hari Prasad Nagar, Chirala

JNTUK UNIVRESITY

2021-2024



## Student's Declaration

We m sai prudhvi raj(21E95A0408), K Syam prasad(21E91A0407),SK  
Tajunnisa(21E91A0414),T Aksha(21E91A0417). Hear by declare that community  
survey project work(CSP) entitled AWERNESS OF DISADVANTAGE OF PLASTIC has  
been carried out by us at Hari prasad Nagar, chirala village, bapatla district and  
Andhra Pradesh under the esteemed guidance of Mr.G S A J Mani Kumar<sup>M.Tech,</sup>  
Assistant professor Deaprtment of Electronic &communication engineering  
Chirala engineering college,chirala.

**Endorsements**

*(Signature and Date)*

*Faculty Guide*

*G. Mani*

*Head of the Department*

*[Signature]*

*Principal*

*[Signature]*

PRINCIPAL  
CHIRALA ENGINEERING COLLEGE  
CHIRALA.

Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523157

**PROGRAM BOOK  
FOR  
COMMUNITY SERVICE PROJECT**

**Name of the Students:** S.Gnananand  
J.Pavankalyan  
D.Durga Prasad  
E.Prasanth  
N.Nehemiya Reddy

**Name of the College:** CHIRALA ENGINEERING COLLEGE CHIRALA

**Registration Number:** 20E91A0415  
20E91A0406  
21E95A0406  
21E95A0407  
21E95A0409

**Period of CSP:** From: 15-07-2022 To: 27-11-2022

**Name & Address of the Community / Habitation :** Desaipet

**JNTUK UNIVERSITY**

**2020-2024**



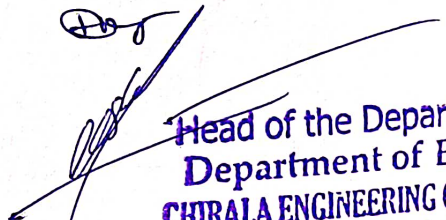
## Students Declaration

We are S.Gnananand, D.DurgaPrasad, E.Prasanth, N.NehemiyaReddy, J.PavanKalyan, a student of B.tech Program, Reg.No. 20E91A0415,21E95A0406,21E95A0407,21E95A0409, 20E91A0406 of the Department of ELECTRONICS AND COMMUNICATION ENGINEERING,CHIRALA ENGINEERING COLLEGE,CHIRALA do hereby declare that I have completed the mandatory community service From 15/07/2022 To 27/11/2022 In,Desaipet Village, Vetapalem Mandal, Bapatla District Andhrapradesh, 523187 under the Faculty Guideship of Mr. M B REDDY (Ph.D.),Department of ELECTRONICS AND COMMUNICATION ENGINEERING in CHIRALA ENGINEERING COLLEGE CHIRALA.

Endorsements

(Signature and Date)

Faculty Guide:

  
Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

Head of The Department:

Principal:

  
PRINCIPAL  
CHIRALA ENGINEERING COLLEGE  
CHIRALA.

**PROGRAM BOOK**  
**FOR**  
**COMMUNITY SERVICE PROJECT**

Name of the student: ch. kalya, v. Tejaswini, D. Aparna.

Name of the college: chirala Engineering college, Chirala.

Registration Number: 21E95A0403, 21E95A0410, 20E91A0405.

Period of CSP: ~~6 Weeks~~ From: 15/07/22 To: 27/11/22.

Name & Address of the Community / Habitation: RAMAPURAM, CHIRALA.

J.N.T.U Kakinada University

YEAR 2022 - 2023



# Student's Declaration

I, Ch. Kavya ; V. Tejaswini ; R. Aparna, a student of B.Tech  
Program, Reg. No. 2019SA0003, 2019SA0048 of the Department of ECE,  
Chirala Engineering College do hereby declare that I have  
completed the mandatory community service from 15/7/22 to 27/11/22 in  
Ocean fishing. (Name of the Community/Habitation) under the Faculty  
Guideship of Ms. R. Radha Kumari, (Name of the Faculty Guide),  
Department of E.C.E, Chirala Engineering in College, Chirala.

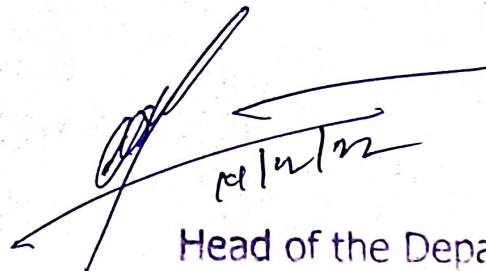
(Signature and Date)

## Endorsements

Faculty Guide


R. Radha Kumari

Head of the Department



Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

Principal



PRINCIPAL  
CHIRALA ENGINEERING COLLEGE  
CHIRALA.

PROGRAM BOOK  
FOR  
COMMUNITY SERVICE PROJECT

Name of the student: Ch. Sai Teja Reddy, M. Ramanjani, P. Jyothi, T. Rohini.

Name of the college: CHERALA ENGINEERING COLLEGE.

Registration Number: 20E91A0404, 20E91A0409, 20E91A0412, 20E91A0416.

Period of CSP:

From: 1/8/22 To: 10/9/22.

Name and Address of the community / Habitation:

ENVIRONMENTAL POLLUTION

AND

FIGHT CLIMATE CHANGE

Kotha Nandayapalem

JNTUK University

Year 2020-2021



## DECLARATION

We, Ch. Sai Teja Reddy (20E91A0404), M. Ramanjani (20E91A0409), P. Jyothi (20E91A0412) and T. Rohini (20E91A0416), hereby declare that Community Service Project work (CSP) entitled "ENVIRONMENTAL POLLUTION AND FIGHT CLIMATE CHANGE" has been carried out by us at Kotha Nandayapalem Village, Karlapalem Mandal, Bapatla District and Andhra Pradesh under the esteemed guidance Mrs. P. PRATYUSHA, M. Tech., Assistant Professor is Department of Electronics and Communication and Engineering, Chirala Engineering College, Chirala.

The work carried out and the results in this report are original and have not been submitted to any other university or institution for the award of any credits.

T. Rohini (12-12-22).  
Signature and Date

### Endorsements

Faculty Guide *Pratyusha*

Head of the Department

*[Signature]*  
Head of the Department  
Department of E.C.E.  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523 157

Principal

*[Signature]*  
PRINCIPAL  
CHIRALA ENGINEERING COLLEGE  
CHIRALA.

**CHIRALA ENGINEERING COLLEGE :: CHIRALA****DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING****II B.TECH::CSP Project Batch**

Batch No	H.T.No	NAME	Topic Covered	GUIDE NAME
1	21E91A0404	AVVARU NAGA PRAVALLIKA	yoga	Mr. Sk. BASHERA
	21E91A0424	KONKIMUDUSU SUPRIYA		
	21E91A0433	NELAPATI PAVITHRA		
2	21E91A0401	AKKALA VENKATA LAKSHMI	Agriculture	Ms. R. RADHA KUMARI
	21E91A0438	PATTEM SANGEETHA		
	21E91A0423	K PRABHAKARA RAO		
3	21E91A0445	VINNAKOTA VISHNU	Drainage water and water problems	Mr. G. MANI KUMAR
	21E91A0412	DEEPALA NIKHILESWAR		
	21E91A0430	MUNNANGI SANJEEV		
4	21E91A0436	PARA NIVAS	Food habits	Mrs. P. PRATYUSHA
	21E91A0404	AVVARU NAGA PRAVALLIKA		
	21E91A0437	PATAN AMBER BHI		
5	21E91A0410	CHERUKURI SUPRIYA	healyh issues	Mr. M. BHUMI REDDY
	21E91A0439	PEDDY HIMABINDU		
	21E91A0434	PALAVVALASA PRAVALLIKA		
6	21E91A0409	CHEERLA RAVI KISHORE	Water resources	Mr. K. RAJESH
	21E91A0420	KATTA SAI		
	21E91A0428	MEENISETTI CHETAN SAI RAM		
7	21E91A0442	SANDIPOGU SWATHI	Medical facility	Mrs. K. BHAGYA RANI
	21E91A0407	CHAKKA VENKATA KARTHIK		
	21E91A0403	ATLA VISHNU VARDHAN REDDY		
8	21E91A0408	CHAPALA PRABHUDAS	Water resourcing	Ms. N. HIMIA BINDU
	21E91A0419	KATCHARA AMARENDRA RAYUDU		
	21E91A0418	KARRA PREM NITTHIN		
8	21E91A0417	KANCHARLA LAKSHMI SRINIVAS	Water resourcing	Ms. N. HIMIA BINDU
	21E91A0415	GORLA ASHOK		



9	21E91A0443	SINGOTHU SURENDRA	Handlooms	Mrs. P. PRATYUSHA
	21E91A0411	DAMARLA VIGNESH		
	21E91A0427	M THIRUPATHI ANKI REDDY		
10	21E91A0446	YARLAGADDA VINAY	Fuel	Mr. K. RAJESH
	21E91A0441	RAJU RAJESH REDDY		
	21E91A0444	SYED IRFAN		
	21E91A0426	MARUBOYINA SAI		
	21E91A0402	AKURATHI VENKATA NITHIN		
11	21E91A0422	K L VENKATA NAGENDRA REDDY	Aqua culture	Mrs. K. BHAGYA RANI
	21E91A0440	POLUKA VENKATA SAI KIRAN REDDY		
	21E91A0447	A.MADAN MOHAN REDDY		
	21E91A0435	PALIBOINA CHANDRANKI REDDY		
12	21E91A0425	MANNEM DHANASHANKAR	Water Pollution	Ms. N. HIMABINDU
	21E91A0432	NANDAMUDI VIJAY KUMAR		
	21E91A0413	GADDE NIKHILESH		

*R. Uma Devi*  
PROJECT COORDINATOR

*[Signature]*  
HOD  
Head of the Department  
Department of E.C.E  
CHIRALA ENGINEERING COLLEGE  
CHIRALA-523157