

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)

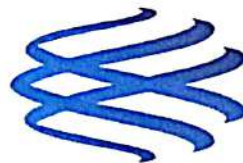
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Under the Guidance of

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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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**DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING**



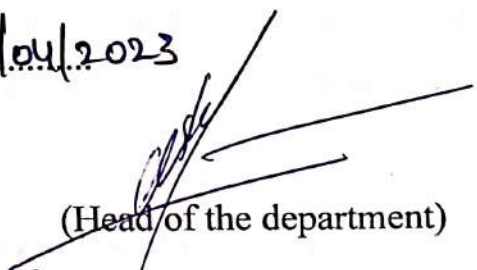
BONAFIDE CERTIFICATE

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


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


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Head of the Department
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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
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B. APOORVA LAKSHMI
(19E91A0403).

E. VENKATA ASHA JYOTHI
(19851A0408).

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(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

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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 "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


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Mr. Murla B REDDY


(Head of the Department)
Department of E.C.E.
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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
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DEPARTMENT OF

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Chirala Engineering College, CHIRALA

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2019-2023

RAMAPURAM BEACH ROAD, CHIRALA, BAPATLA DISTRICT,
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(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
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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)

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KATTA SIVANAGESWARA RAO

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Under Esteemed the Guidance of

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Associate Professor



DEPARTMENT OF ELECTRONICS & COMMUNICATION
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2019-2023

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

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**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

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(Head of the department)

Head of the Department
Department of E.C.E.
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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

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Department of ECE



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
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(Approved by AICTE New Delhi, Affiliated to JNTUK, Kakinada)

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**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.
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CHIRALA-523157


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

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Associate Professor



DEPARTMENT OF ELECTRONICS & COMMUNICATION
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Chirala Engineering College, CHIRALA

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(Accredited by NAAC with 'A' Grade)

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 "IDENTIFICATION AND CLASSIFICATION OF TOMATO PLANT LEAF DISEASES BY USING A NOVEL CNN" is submitted by G.SUJITHA (20E95A0405), P.MANIKANTA (19E91A0413), B.NAGATRIVANI (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.

(Internal Guide)

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

Viva voice Date 15/04/2023

(Head of the department)

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

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

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Assistant Professor



**DEPARTMENT OF ELECTRONICS & COMMUNICATION
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Chirala Engineering College, CHIRALA

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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), M.SANDEEP 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 RANIM.Tech.,

[Signature]
(Head of the department)

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

[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
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DEPARTMENT OF ELECTRONICS & COMMUNICATION
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Chirala Engineering College, CHIRALA

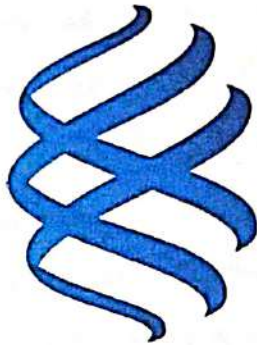
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(Accredited by NAAC with 'A' Grade)

2019-2023

Chirala Engineering College, CHIRALA
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**DEPARTMENT OF ELECTRONICS & COMMUNICATION
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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.

Mr. Murla Bhumi Reddy
(Internal Guide)

Mr.Murla Bhumi Reddy

Viva voice Date 15/04/2023

Dr. Shaiq Basheera
(Head of the department)

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

[Signature]
EXTERNAL EXAMINER

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
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Under the guidance of

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION
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Chirala Engineering College, CHIRALA

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2019-2023

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DEPARTMENT OF ELECTRONICS & COMMUNICATION
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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)**,**PAKHIL (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

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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

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Midatha.Nagamani

(20E95A0410)

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Associate professor



**DEPARTMENT OF ELECTRONICS & COMMUNICATION
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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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**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

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Ms.R.Radha Kumari

M.Tech.,(Ph.D)

Dr. Shaik Bhasheera
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Dr.Shaik Bhasheera

M.Tech.,Ph.D.,
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[Signature]
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

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T. PRUDHVI RAJ

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Under the Esteemed Guidance of

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

Associate Professor

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CHIRALA
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

Chirala Engineering College: Chirala

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2019-2023

CHIRALA ENGINEERING COLLEGE, CHIRALA

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CHIRALA
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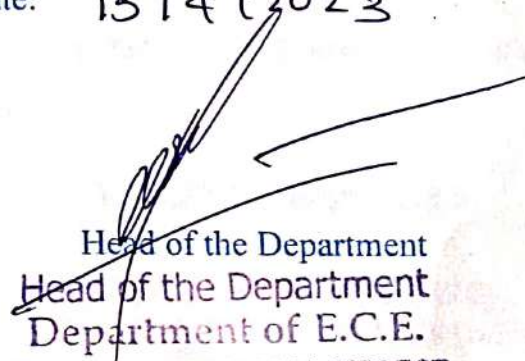
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BONAFIDE CERTIFICATE

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


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External Examiner