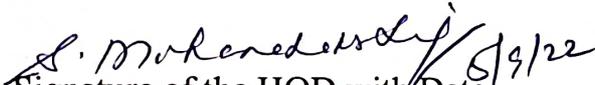


ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled “**REDUCTION OF TIMING JITTER IMPACTS IN 8-PSK SYSTEM USING OVERSAMPLING**” is the bonafide work of **NITHYA M (963320403010)** who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with Date

Dr.S.MOHANALAKSHMI M.E.,Ph.D,

Professor and Head

Department of Electronics

And Communication Engineering

Rohini College of Engineering and
Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu.


Signature of Supervisor with date

Dr.REJI .,M.E.,Ph.D.,

Associate Professor

Department of Electronics

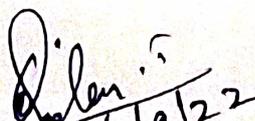
And Communication Engineering

Rohini College of Engineering and
Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu.

Submitted for the Phase-II viva-voce examination held on...**6/9/2022**...at
Rohini College of Engineering & Technology.

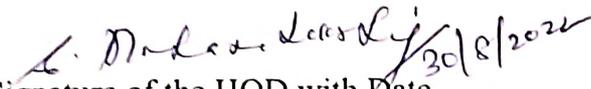

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "ADAPTIVE ACE ALGORITHM FOR THE EFFECTIVE REDUCTION OF PAPR IN OFDM SYSTEM " is the bonafide work of G.MARIA KISHOBA (963320403007) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with Date

Dr.S.MOHANALAKSHMI, M.E., Ph.D

Professor and Head

Department of Electronics and

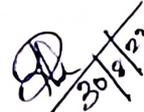
Communication Engineering

Rohini College of Engineering

and Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu.


Signature of the Supervisor with Date

Signature of the Supervisor with Date

Dr.R.B.BENISHA, M.E., Ph.D

Associate Professor

Department of Electronics and

Communication Engineering

Rohini College of Engineering

and Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu

Submitted for the Phase-2 viva-voce examination held on 06-09-2022.... at Rohini College of Engineering & Technology.

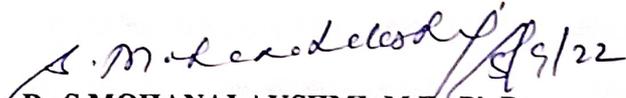

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled “FAULT TOLERANT SRAM MEMORY USING 2-D SYMBOLIC HAMMING MATRIX CODE” is the bonafide work of DIVYA C (963320403005) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

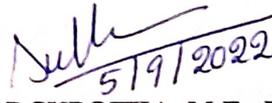

Dr.S.MOHANALAKSHMI, M.E., Ph.D

Professor and Head

Department of Electronics and
Communication Engineering
Rohini College of Engineering
and Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu.


Dr.S.P.SUBOTHA, M.E., Ph.D

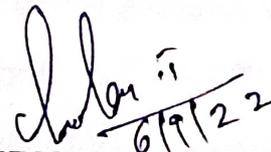
Associate Professor

Department of Electronics and
Communication Engineering
Rohini College of Engineering
and Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu.

Submitted for the Phase-2 viva-voce examination held on 06/09/2022 at
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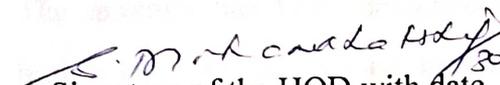

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNAUNIVERSITY,CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "DESIGN AND ANALYSIS OF RECTANGULAR MICROSTRIP PATCH USING SIMPLE SINGLE GEOMETRY" is the bonafide work of DEEPIKA G (963320403004) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with date 30/8/2022

Dr.S.MOHANALAKSHMI,M.E.,Ph.D.

Professor and Head

Department of Electronics
and Communication Engineering
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Signature of Supervisor with date

S.GEETHA,M.E.

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Department of Electronics
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and Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu

Submitted for the Phase-2 viva-voce examination held on6/9/2022..... at
Rohini College of Engineering & Technology.

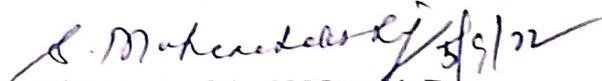

6/9/22
INTERNAL EXAMINER


6/9/22
EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "CASCADED FUZZY CLUSTERING FOR IMPROVED AND SECURED DATA TRANSMISSION FOR VANET APPLICATIONS" is the bonafide work of ALLEN NISSANTH N (963320403002) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with Date

Dr.S.MOHANALAKSHMI, M.E., Ph.D

Professor and Head

Department of Electronics
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Palkulam, Varyoor-629401.
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Signature of Supervisor with date

Mr.R.VENKATESH M.E

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Palkulam, Varyoor-629401.
Kanyakumari District, Tamilnadu.

Submitted for the Phase II Report viva-voce examination held on
..6.9.2022. at Rohini College of Engineering & Technology.

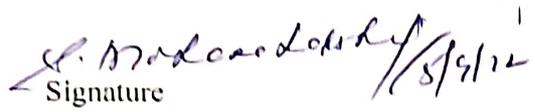

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "AN OPTIMIZED HYBRID DEEP LEARNING MODEL FOR RESOURCE ALLOCATION IN 5G NETWORKS" is the bonafide work of MAMATHA L PILLAI (963320403006) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

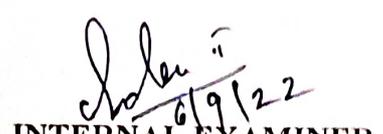

Signature

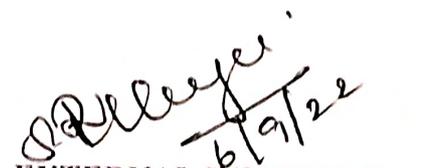
Dr.S.MOHANALAKSHIMI, M.E., Ph.D
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Palkulam, Variyoor-629401
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Kanyakumari District, Tamilnadu.

Submitted for the Phase-I viva-voce examination held on 06/09/2022 at Rohini College of Engineering & Technology.

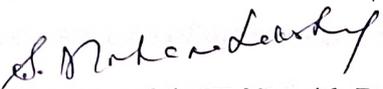

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "A NEW HYBRID FEATURES RECOGNIZED FOR FACIAL EMOTION USING RANDOM FOREST " is the bonafide work of S.SUJATHA (963320403019) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with Date

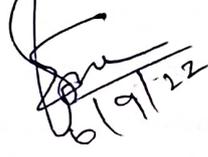
Dr.S.MOHANALAKSHMI, M.E., Ph.D

Professor and Head

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Communication Engineering
Rohini College of Engineering
and Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu.


Signature of the Supervisor with Date

Dr.E.SREE DEVI, M.E., Ph.D

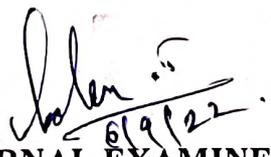
Associate Professor

Department of Electronics and
Communication Engineering
Rohini College of Engineering
and Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu

Submitted for the Phase-2 viva-voce examination held on 06/09/2022 at
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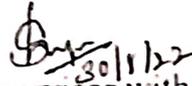
ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "2 DIMENSIONAL ERROR CORRECTION CODE FOR SPACE MEMORY DEVICES" is the bonafide work of SUBHA C P (963320403017) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with Date

Dr.S.MOHANALAKSHMI,
Professor and Head
Department of Electronics
and Communication Engineering
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Kanyakumari District, Tamilnadu.


Signature of Supervisor with date

Mrs. JASMINE J C SHEEJA,
Assistant Professor
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Palkulam, Variyoor-629401
Kanyakumari District, Tamilnadu

Submitted for the Phase-II viva-voce examination held on 06/09/2022..... at Rohini
College of Engineering & Technology.


INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "SALIENCY MAPPING FOR OBJECT DETECTION USING DEEP LEARNING RBFNN NETWORKS" is the bonafide work of SREE RANGANATHAN R (963320403015) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with Date


Signature of Supervisor with date

Dr.S.MOHANALAKSHMI, M.E., Ph.D

Professor and Head

Department of Electronics
and Communication Engineering,
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Palkulam, Variyoor-629401.

Kanyakumari District, Tamilnadu.

Mr. S.SOBAN,M.E

Assistant Professor,

Department of Electronics and
Communication Engineering,
Rohini College of Engineering
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Palkulam, Variyoor-629401.

Kanyakumari District, Tamilnadu.

Submitted for the Phase II viva-voce examination held on
...6/9/2022... at Rohini College of Engineering & Technology.

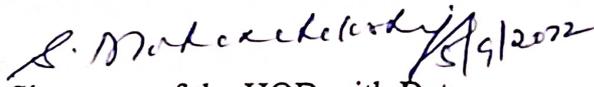

INTERNAL EXAMINER


EXTERNAL EXAMINER

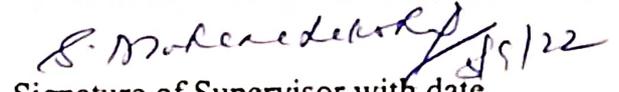
ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "AUTOMATIC PREDICTION OF TP53 MUTATION IN PANCREATIC CANCER USING PARTICLE SWARM OPTIMISATION BASED CONVOLUTION NEURAL NETWORK" is the bonafide work of SATHYA S(963320403012) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

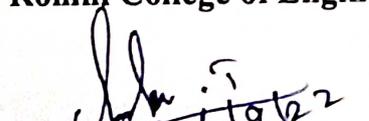

Signature of the HOD with Date

Dr.S.MOHANALAKSHMI,
Professor and Head
Department of Electronics
and Communication Engineering
Rohini College of Engineering
and Technology
Palkulam, Variyoor-629401
Kanyakumari District, Tamilnadu.


Signature of Supervisor with date

Dr.S.MOHANALAKSHMI,
Professor and Head
Department of Electronics
and Communication Engineering
Rohini College of Engineering
and Technology
Palkulam, Variyoor-629401
Kanyakumari District, Tamilnadu

Submitted for the Phase-2 viva-voce examination held on....06/09/22.... at
Rohini College of Engineering & Technology.

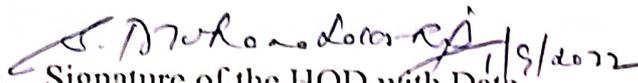

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "DESIGN OF POLARIZATION RECONFIGURABLE PATCH ANTENNA FOR WIRELESS COMMUNICATIONS BASED ON FLUID CONTROL METHOD" is the bonafide work of ANLIN REENA Y (963320403003) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with Date 11/9/2022

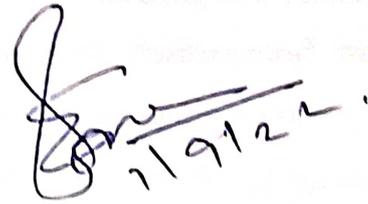
Dr.S.MOHANALAKSHMI, M.E.,Ph.D.

Professor and Head

Department of Electronics
and Communication Engineering
Rohini College of Engineering
and Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu.


7/9/22

Signature of Supervisor with date

Dr.E.SREE DEVI, M.E.,Ph.D

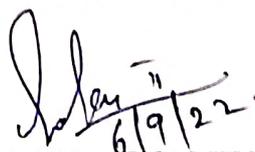
Professor

Department of Electronics
and Communication Engineering
Rohini College of Engineering
and Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu

Submitted for the Phase-2 viva-voce examination held on ...6.09.2022..... at
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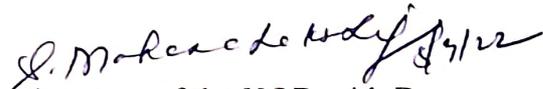

6/9/22
INTERNAL EXAMINER


6/9/22
EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "A FAST AND ACCURATE ESTIMATION OF CHANNEL AVAILABILITY USING HILBERT TRANSFORM AND HYBRID ML-MMSE EQUALIZER" is the bonafide work of "ABITHA C" (963320403001) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with Date

Dr.S.MOHANALAKSHMI M.E.,Ph.D,

Professor and Head

Department of Electronics

And Communication Engineering

Rohini College of Engineering and
Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu.


Signature of Supervisor with date

Dr.S.ABISHA.,M.E.,Ph.D.,

Associate Professor

Department of Electronics

And Communication Engineering

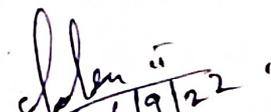
Rohini College of Engineering and
Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamilnadu.

Submitted for the Phase-II viva-voce examination held on ..06..09..2022,..... at

Rohini College of Engineering & Technology.


INTERNAL EXAMINER


EXTERNAL EXAMINER



ABT MARUTI

(A Division of A B T Limited)
72, Mount Road, Guindy - 600 032.
Ph : 044- 42254555 Fax : 044 - 42254575

MARUTI  SUZUKI

Way of Life!

CERTIFICATE

Date: 03.09.2022

This is to certify that Mr.Parama Sivam K (Reg No:963321631033) second year MBA student of Rohini College Of Engineering and Technology,Palkulam-629401 Kanyakumari District has completed Internship in our organisation. He was regular in his attendance from (06/08/2022 to 03/09/2022) in our company.

During this period his co-operation and performance was excellent.

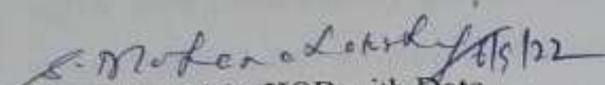

Author: 



ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "OPTIMIZED DEEP LEARNING MODEL BASED CHANNEL ESTIMATION FOR MASSIVE MIMO WITH HYBRID TRANSCEIVERS: A META-HEURISTIC APPROACH" is the bonafide work of J S SOWMIYA (963320403014) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature of the HOD with Date

Dr.S.MOHANALAKSHMI

Professor and Head

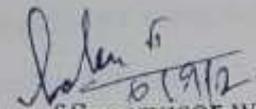
Department of Electronics and
Communication Engineering

Rohini College of Engineering

Technology

Palkulam, Variyoor- 629401

Kanyakumari District, Tamil Nādu.


Signature of Supervisor with date

Dr.T. SUDARSON RAMA PERUMAL

Associate Professor

Department of Electronics and
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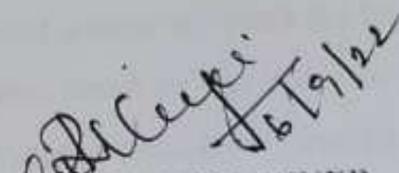
Rohini College of Engineering and
Technology

Palkulam, Variyoor-629401

Kanyakumari District, Tamil Nādu

Submitted for the Phase-1 viva-voce examination held on 6/9/2022 at Rohini
College of Engineering & Technology.

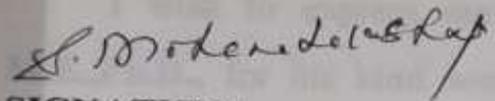

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **“SECURED COMMUNICATION AND ENERGY EFFICIENT FOR VANET USING LOCATION DEPENDENT KEY MANAGEMENT”** is the bonafide work of **“LNITHYA SREE (963317106064), C.ISHA (963317106040)”** who carried out the project work under my supervision.



SIGNATURE

Dr.S.MOHANALAKSHMI, M.E., Ph.D.

HEAD OF THE DEPARTMENT

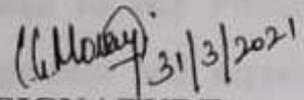
Professor & Head

Department of Electronics and Communication Engineering

Rohini College of Engineering & Technology

Palkulam, Variyoor (Post)

Kanyakumari - 629 401.



SIGNATURE

Mr.C.K.MORARJI, M.E., (Ph.D.)

SUPERVISOR

Assistant Professor

Department of Electronics and Communication Engineering

Rohini College of Engineering & Technology

Palkulam, Variyoor (Post)

Kanyakumari - 629 401.

University Practical Viva-Voce Examination held on at
Rohini College of Engineering & Technology, Palkulam.

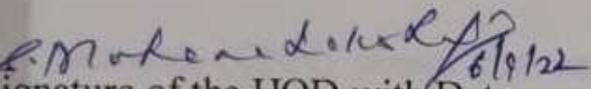
INTERNAL EXAMINER

EXTERNAL EXAMINER

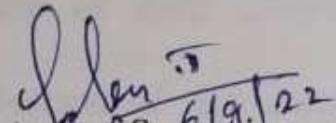
ANNAUNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled **“PADDY DISEASE IDENTIFICATION USING DEEP, CNN WITH RESNET50”** is the bonafide work of **SHIJOV.THOMAS (963320403013)** who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

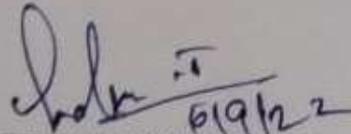

Signature of the HOD with Date

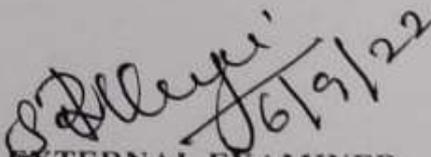
Dr.S.MOHANA LAKSHMI,M.E.,Ph.D,
Professor and Head Department of
Electronics and Communication
Engineering Rohini College of Engineering
and Technology,
Palkulam,Variyoor-629401
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Signature of Supervisor with Date

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Submitted for the Phase-2 viva-voce examination held on...6/09/2022...at **Rohini College of Engineering & Technology.**

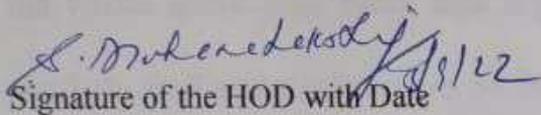

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "THE EFFECTIVE PAPR REDUCTION TECHNIQUE USING PERFECT RANDOM SEQUENCES FOR 5G TECHNOLOGY" is the bonafide work of SUGUMAR M (963320403018) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


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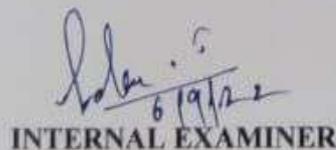

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