

## E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai (Accredited by NAAC with 'A' Grade and NBA)

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ProgrammeName: M.E COMMUNICATION SYSTEMS

Place of Work: E.G.S Pillay Engineering, Nagapattinam.

This is to certify that the list of students undertaking field projects/Student's projects in the last completed Academic Year 2021 – 2022 are given below:

S.No	Students Name	Title
1	ASHWINI V	Detection of Ancylostomiasis and Necatoriasis in human stomach using radio pill endoscopy image.
2	GOPINATH R	Modernization of internet protocol television (IPTV) under TRAI rules.
3	KARTHIKEYAN S	Improving the wireless sensor node life time by forming the unequal clustering heads system.
4	MANIKANDAN M	An enhanced pyramid algorithm for multi exposure in image fusion.
5	MANOJBALA K	Performance enhancement of transceiver system based inner satellite optical wireless channel (IS-OWC) for ultra long distance.
6	NANDHAKUMAR K	A highly secure oblivious sparse coding-based water making system for ownership verification.
7	RAJAMANICKAM J	Secure image transmission in wireless OFDM systems using secure block compression.
8	RAMYA K	Performance analysis of MIMO OFDM for different modulation schemes(QAM,QPSK,BPSK) using link adaptation.
9	SUDARVIZHI B	Speech signal dereverberation using deep learning algorithm.
10	SUGANYA S	Real-time texture mapping of garments over 3D model of human.
11	SWETHA K S	Brain tumor detection from MRI image using K-MEANS clustering.
12	VEMBARASI K	Mixed dual – HOP FSO –RF communication systems through reconfigurable intelligent surface.

HOD

Dr. B. PADMANABAN, M.E., Ph.D.,
HEAD OF THE DEPARTMENT
DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING
E.G.S. PILLAY ENGINEERING COLLEGE,
NAGAPATTINAM - 611 002,

**PRINCIPAL** 

(b)

Dr. S. RAMABALAN, M.E., Ph.D., PRINCIPAL

## BONAFIDE CERTIFICATE

Certified that this project titled "DETECTION OF ANCYLOSTOMIASIS AND RADIO USING STOMACH HUMAN **NECATORIASIS** ENDOSCOPY IMAGES" is the bonafide work of Mr. ASWINI.V (E20COF001) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

. M.E., Ph.D.,

PG- communication systems

Associate Professor and Head

Department of ECE

E.G.S. Pillay Engineering

College

Nagapattinam.

S. Jim Hawkinson M.E., (Ph.D)

Assitant Professor,

Department of ECE,

E.G.S. Pillay Engineering

College,

Nagapattinam.

Submitted for the Project Viva-Voce examination held on \( \frac{\infty}{8} \) | 07 | 22

EXTERNAL EXAMINE

Dr. S. RAMABALAN, M.E., Ph.D., PRINCIPAL

## ANNA UNIVERSITY, CHENNAI **BONAFIDE CERTIFICATE**

Certified that this project titled "MODERNIZATION OF INTERNET PROTOCOL TELEVISION (IPTV) UNDER TRAI RULES" is the bonfire work of Mr. R.GOPINATH (E20COF002) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Raj, M.E., Ph.D.,

PG- communication systems

Associate Professor and Head

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E.G.S. Pillay Engineering

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admanaban M.E., Ph.D.,

Professor and Head

Department of ECE,

E.G.S. Pillay Engineering

College,

Nagapattinam.

Submitted for the Project Viva-Voce examination held on 08/07 /2022

EXTERNAL EXAMINER

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

PRINCIPAL

#### BONAFIDE CERTIFICATE

Certified that this project report titled "IMPROVING THE WIRELESS SENSOR NODE LIFE TIME BY FORMING THE UNEQUAL CLUSTERING HEADS SYSTEMS" is the bonafide work of Mr. KARTHIKEYAN. S (E20COF003) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any 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. A. SundarRaj, M.E., Ph.D

PG, Communication systems

Associate Professor and Head

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Dr. A. SundarRaj, M.E., Ph.D.

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Submitted for the Viva voce Examination held on

08/07/22

INTERNALIZAMINER

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

PRINCIPAL

E.G.S. Pillay Engineering College, Thethi, Nagore - 611 002.

Nagapattinam (Dt) Tamil Nadu.

EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certified that this project titled "AN ENHANCED PYRAMIDALGORITHM FOR MULTI – EXPOSURE IMAGE FUSION" is the bonafide work of Mr. MANIKANDAN M (E20COF004) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any 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. A. Sundan Raj, M.E., Ph.D.,

PG- communication systems

Associate Professor and Head

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Mr. L. Ramachandran, M.Tech., (Ph.D)

Assitant Professor,

Department of ECE,

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Submitted for the Project Viva-Voce examination held on 8-1.22

INTERNAL EXAMINER

EXTERNAL EXAMINER

Dr. S. RAMABALAN, M.E., Ph.D.
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

## ANNA UNIVERSITY, CHENNAL BONAFIDE CERTIFICATE

OWNERSHIP VERIFICATION BASED ON SECURE SPARSE CODING" is the bonafide work of Mr.NANDHAKUMAR.K (E20COF006) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any 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. A. Sundar Raj, M.E., Ph.D.,

PG- communication systems

Associate Professor and Head

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S. Senthilkumar, M. Tech., (Ph.D.,).

Assistant Professor,

Department of ECE,

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College,

Nagapattinam.

Submitted for the Project Viva-Voce examination held on 08.07.2022

INTERNAL EXAMINER

EXTERNAL EXAMINER

RAMABALAN, M.E., Ph.D.,

#### BONAFIDE CERTIFICATE

Certified that IMAGE "SECURE this titled project report TRANSMISSION IN WIREKESS OFDM SYSTEM USING SECURE COMPRESSION" bonafide BLOCK is the work Mr.RAJAMANICKAM J (E20COF008) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any 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. A. SUNDAR RAJ., M.E., Ph.D

Mrs.RKEERTHIKA., M.Tech.,

PG, Communication systems

Assistant professor

Professor and Head

Department of ECE

Department of ECE

E.G.S. Pillay Engineering

E.G.S. Pillay Engineering

College Nagapattinam.

College Nagapattinam.

Submitted for the Viva voce Examination held on \_08/07/2022\_

NTERNALEXAMINER

**EXTERNALEXAMINER** 

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

#### BONAFIDE CERTIFICATE

Certified that this project report titled "PERFORMANCE ANALYSIS OF MIMO OFDM FOR DIFFERENT MODULATION SCHEMES (QPSK, BPSK, QAM-32) USING LINK ADAPTATION" is the bonafide work of Mrs. RAMYA. K (E20COF009) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any 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. A. Sundar Raf. M.E., Ph.D

PG, Communication systems

Professor and Head

Department of ECE

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Show

Mr.M. NUTHAL SRINIVASAN, M.E., (Ph.D)

Assistant professor

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Submitted for the Viva voce Examination held on - 08-07-2022

INTERNAL EXAMINER

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EXTERNAL EXAMINER

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

E.G.S. Pillay Engineering College, Thethi, Nagore - 611 092.

Nagapattinam (Dt) Tamil Nadu.

# ANNA UNIVERSITY, CHENNAL BONAFIDE CERTIFICATE

Certified that this project report titled "SPEECH SIGNAL DEREVERBERATION USING DEEP LEARNING ALGORITHM" is the bonafide work of Ms. SUDARVIZHI B (E20COF010) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any 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. A. SUNDAR RAJ, M.E., Ph.D

PG CommunicationSystems

ProfessorandHead

DepartmentofECE

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Miss.S.AADHIRAI, M.E.,

Assistant Professor

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Submitted for the Viva voce Examination held on 8/7/2022

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ATTESTED

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**EXTERNALEXAMINER** 

Dr. S. RAMABALAN, M.E., Ph.D., PRINCIPAL

#### **BONAFIDE CERTIFICATE**

Certified that this project report titled "REAL-TIME TEXTURE MAPPING OF GARMENTS OVER 3D MODEL OF HUMAN" is the bonafide work of Ms. SUGANIYA. S (E20COF011) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any 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. A. Sundar Rall M.E., Ph. D

PG, Communication systems

Professor and Head

Department of ECE

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Nagapattinam.

Mrs. S. Chitra., M.E., (Ph. D)

Assistant professor

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Nagapattinam.

Submitted for the Viva voce Examination held on 08 07 2022

INTERNAL EXAMINER

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**EXTERNAL EXAMINER** 

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

#### BONAFIDE CERTIFICATE

Certified that this project report titled "BRAIN TUMOR DETECTION FROM MRI IMAGE USING K-MEANS CLUSTERING" is the bonafide work of Ms.SWETHA.K.S (E20COF012) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any 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. A. Sundar Raj., M.E., Ph. D

PG. Communication systems

Professor and Head

Department of ECE

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(). 17/122 Dr. D. Doversion M. F. Ph. D.

Dr.D.Devarajan., M.E., Ph. I

Associate professor

Department of ECE

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Submitted for the Viva voce Examination held on 08:07:2022

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ATTESTED

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

PRINCIPAL

#### BONAFIDE CERTIFICATE

Certified that this project report titled "MIXED DUAL-HOP FSO-RF COMMUNICATION SYSTEMS THROUGH RECONFIGURABLE INTELLIGENT SURFACE FOR 6G COMMUNICATION" is the bonafide work of Mrs.VEMBARASI.K (E20COF013) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any 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.A.Sundar Raj, M.E., Ph.D.,

Mr.T.Senthilkumar, M.E., (Ph.d)

PG, Communication Systems

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Submitted for the Viva voce Examination held on 08 - 07 - 2022

INTERNAL EXAMINER

EXTERNAL EXAMINER

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Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

5.0.5. Billoy Engineering College,

### BONAFIDE CERTIFICATE

Certified that this Report titled "DESIGN OF A HYBRID ENERGY SYSTEM WITH AUTO SPLITTING OF NON-CONVENTIONAL SOURCES OF ENERGY FOR ENVIRONMENTAL VARIATION " is the bonafide work of ANGELO VINCY CHRISTHOM .B (E17COF002) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein 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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**SIGNATURE** 

Dr.V.PARTHASARADHI

HEAD OF THE DEPARTMENT

Department of ECE

E.G.S. Pillay Engineering College

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Dr.M. IRSHAD AHAMED

SUPERVISOR

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Department of ECE

E.G.S. Pillay Engineering College

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Submitted for the Viva voce Examination held on 3 1 2 5

Internal Examiner

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

PRINCIPAL