

Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 2

TEACHING-LEARNING AND EVALUATION

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL
INDRA GANESAN COLLEGE OF ENGINEERING





Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator-2.3.1 Problem Solving Method

2.3.1 Mini Project and Main Project

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

Department of Electronics and Communication Engineering

ACADEMIC YEAR 2022 - 2023 Experiential Learning - Main Project

Batch No.	Registration No	Name of the Student	Year / Sem	Topic	Name of the Learning Method
1	811219106011	Swetha K	IV / VIII	CNN-Based Deep Learning Approach For Micro Crack detection Of Solar panels	EXPERIENTIAL LEARNING METHOD - PROJECT
	811219106301	Yuvashree S			
	811219106701	Vijayalakshmi V			
2	811219106008	Srikanth M	IV / VIII	Medicine Identification And Auditory Output System For Disabled People	
	811219106010	Surya V R			
	811219104017	Ranjana S			
3	811219106001	Dayana P	IV / VIII	Labview based Real time Maritime Boundary system	
	811219106002	Devika K			
4	811219106005	Ravikumar B	IV / VIII	Design of Micro strip Lowpass Filter using stepped impedance method	
	811219106009	Surendran S			
5	811219106003	Dinesh J	IV / VIII	Iot Based Sewer Clogging prediction system for smart city Deep learning based safty	
	811219106004	Mohana Sundaram K			
6	811219106702	Ponnarasu S	IV / VIII		
	811219106006	Santhanaraj A		Helmet in Industry	

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Modurai Main Road

Manillanda 1 Shy-520 012.

M Bru areve HOD/ECE

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "CNN-BASED DEEP LEARNING APPROACH FOR MICRO CRACK DETECTION OF SOLAR PANELS is the bonafide work of "SWETHA K (811219106011), YUVASHREE S (811219106301) and VIJAYALAKSHMI V(8)1219106701) "who carried out the project work under my supervision.

M. Thereprise

SIGNATURE

Prof. N. RAMYA

HEAD OF THE DEPARTMENT

Department of Electronics and

Communication Engineering,

Indra Ganesan College of Engineering,

Madurai Main Road, NH-45B.

i iruchirapalli-620 012

ELL (DVON A)

SIGNATURE

Mrs.D. KOKILA

SUPERVISOR

Assistant Professor.

Department of Electronics and

Communication Engineering.

Indra Ganesan College of Engineering

Madurai Main Road, NH-45B.

Tiruchirapalli-620 012

action of the Vina Conversity project Viva-Voice examination \$2.105 2045

CHERNALLYMINER

FYTERNAL EXAMINER

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikanda - Trichy-620 012.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

ANNA UNIVERSITY: CHENNAI 600 025 BONAFIDE CERTIFICATE

Certified that this project repor "MEDICINE IDENTIFICATION AND

AUDITORY OUTPUT SYSTEM FOR DISABLED PEOPLE" is the Bonatide

work of "SRIKANTH M (811219106008) and SURYA VR (811219106010)" who

carried out the project work under my supervision.

Prof. N. RAMYA

HEAD OF THE DEPARTMENT

Department of Electronics and

Communication Engineering

Indra Canesan College of Engineering

Madurai Main Road, NH-45B

Tiruchirappalli - 620 012

Mrs. B. SARASWATHI

SUPERVISOR

Assistant Professor

Department of Electronics and

Communication Engineering.

Indra Ganesan College of Engineering

Madurai Main Road NH-45B.

Firuelnrappalli - 620 012

Submitted for Anna University Project Viva -Voce Examination held on 198/05/2023

14, -11 × 1/1

FAIR WENDING

Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikang Wood 623 012.

Dr. G. Balakrishnan, M.E., Ph. .. Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-520 012.

ANNAUNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "LABVIEW BASED REAL TIME MARITIME.

BOI NDARY MONITORING SYSTEM AND NAVIGATION ALERT SYSTEM"

Work of "DAYANA P (811219106001) and DEVIKA K (811219106002)" who

Carried out the project work, under my supervision.

SIGNATURE

Prof N. RAMY A

SIGNATURE

Mrs P. SANTHANA SELVI

HEAD OF THE DEPARTMENT

SUPERVISOR

Assistant Professor

Department of Lieutonics and Communication

Fagin crin

halte three and other on Loring ring.

Make a Man, Read MIT 47

Titles or a result - 620 (12)

Department of Electronics and Communication Engineering

India Ganesan College of Engineering.

Madurai Main Road NI! 4513

Lacentappalli 62011

Submitted for Arma University Project Viva - Voice I communion held on 22165 (464)

INTERNAL FARMINER

Dr. G. Balakriskman, M.E., Ph.D.,

Principal
Principal
Andra Ganesan College of Engineering
Main Road
IG Valley, Madural Main Road
Manikandam, Trichy-620 012,
Manikandam, Trichy-620 012,

MITERNAL EXAMINER

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN OF MICROSTRIP LOWPASS FILTER USING STEPPED IMPEDANCE METHOD" is the bonafide work of "SURENDRAN S (811219106009) and RAVI KUMAR B (811219106005)" who carried out the project work under my supervision.

SIGNATURE

Prof. N. RAMYA
HEAD OF THE DEPARTMENT

Department of Electronics and Communication Engineering, Indra Ganesan College of Engineering Madural Main Road, NH-45B, Lindchrappalli - 620 012 SIGNATURE

Prof. N. RAMYA

SUPERVISOR

Department of Electronics and Communication Engineering, Indra Ganesan College of Engineering Madurai Main Road, NII-45B,

Tiruchirappalli - 620 012

Submarted for Anna University Project Viva Voce Examination held on 22,25, 22, 3

PARTY OF TAXMINER

WHEN THANKS

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IC Valley, Madural Main Road
Manika A 1879-620 002.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED SEWER CLOGGING PREDICTION SYSTEM FOR SMART CITY" is the bonefule work of pinesh J (811219106003)" and "MOHANA SUNDARAM K (811219106004)" who started out the project work under my supervision.

WEIGNATURE TO THE

POT N. RAMYA
HEAD OF THE DEPARTMENT

SIGNATURE

Mrs. P. JENCY LEENA SUPERVISOR

Assistant Professor

Department of Electromes and

Communication Engineering

India Ganesan College of Engineering

Madurai Main Road NII-15B

Truchtappath - 620 013

Department of Electronics and,

Communication Engineering

Indra Ganesan College of Engineering

Madura Main Road, NH-45B.

Turschienopalli + 620 012

Sufficiented for Anna Liniversity Project Viva - Voce Examination held on 25 for 15000

144

DIEBNAL EXAMINER

EXTERNAL EXAMINER

Dr. G. Balakrishnan, M.E., Ph.D.
Principal

India Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Tribby-620 012.

"anikonde harry-620 ML Dr. G. Balan

principal

Principal

Indra Ganesan College of Engineering

Main Road

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Centried that this project report "DEEP LEARNING BASED SAFETY

HELMET IN INDUSTRY" is the bonafide work of "PONNARASUS J

(811219106702) and SANTHANARAJ A (811219106006)" who carried out the project work under my supervision.

SIGNATURE

Prof. N. RANIYA

HEAD OF THE DEPARTMENT

Department afficetronics and

Communication Logineering.

Inter Concessor College of Engineering

Madarat Main , Road, NH-45B,

Dredicipal, 620 012

M. B. GUANARO -

DE M. BHUVANESWARI

SUPERVISOR

Associate Professor

Department of Electronies and

Communication Engineering.

Indip Ganesan College of Engineerin

Madurai Main Road NIT-45B.

Thuchirappath - 620 012

Solution of the Author University Project Villa - Vocc hamiltanion held on 22 05 2022

MARINAL ENAMENTA 1/5/2-3

MATTER AND THE WARREN

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

principal

ndra Ganesan College of Engineering

IG Valley, Madurai Main Road

Trichy 620 012







Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

Department of Electronics and Communication Engineering

ACADEMIC YEAR 2022 – 2023

Experiential Learning - M.E VLSI Design Main Project

Batch No.	Registration No	Name of the Student		Topic	Name of the Learning Method
1	811221419001	Abarna T	M.E II / IV	Implementation of Vlsi based Robust Router Architecture	EXPERIENTIAL LEARNING METHOD - PROJECT

HOD/ECE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
North 2620 012.

ANNA UNIVERSITY: CHENNAI 600025 BONAFIDE CERTIFICATE

ROBUST ROUTER ARCHITECTURE" is the bonafide work of ABARNA T
(811221419001) 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 from part of any other
thesis or dissertation on the basis of which a degree or award wasconferred on an earlier
occasion on this or any other candidate.

SIGNATURE 9/10/23

Mrs. P.SANTHANA SELVI, M.E.,

Head of the Department

Department of ECE

Indra Ganesan College of Engineering

Tiruchirapalli - 620012

SIGNATURE

Mrs KOKILA., M.E.

Associate Professor

Department of ECE

Indra Ganesan College of Engineering

Tiruchirapalli - 620012

Submitted the report in viva - voce examination held on

9/10/23

TERNAL EXAMINER

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.