

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. Teaching- Learning Process (40)

2022-2023

ELECTRICAL AND COMMUNICATION ENGINEERING EXPERIENTIAL LEARNING

Activity	Number of Students Attended	Page No.
Internship	48	
Project	13	
TOTAL STUDENTS ATTENDED	61	-

Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator- 2.3. Teaching- Learning Process (40)

2022-2023

ELECTRICAL AND COMMUNICATION ENGINEERING INTERNSHIP



Indra Ganesan COLLEGE OF ENGINEERING



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Appawed 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

INTERNSHIP DETAILS

S. No	Year	Total No. of Studen ts	Total No. of Students Attended	Register Number of the Students	Company Name	Programme Name	Duration
1.	IV Year / VII Sem	13	13	811219106001,811219106002,811219106003,811219106004,81121 9106005,811219106006,811219106008,811219106009,8112191060 010,811219106011,811219106301,811219106701,811219106702	New Propeller Technologies	Robotics & Automation	26.12.2022 to 30.12.2022
2.	III Year / VI Sem	22	22	811220106006,811220106008,811220106018,811220106019,81122 0106021,811220106022,811220106023,811220106025,8112201060 26,811220106028,,811220106031,811220106032,811220106033,81 1220106034,811220106037,811220106038,811220106039,8112201 06041,811220106042,811220106049,811220106301,811220106304	Foxconn Honai Technology India Pvt.Ltd	In plant Training	12.06.2023 to 23.06.2023
3.	II Year / IV Sem	14	14	811221106001,811221106003,811221106005,811221106008,8112211060 12,811221106022,811221106024,811221106033,811221106034,8112211 06035,811221106036,811221106037,811221106040,811221106301	Power Integrated Solutions	Embedded Systems & Applications	19.06.2023 to 23.06.2023

Internship Coordinator

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

Principal

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



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Mobile: 7639385448 | 9566377454.

Web: www.powerintegrated.in

Mail: contact@powerintegrated.in

MSME: UDYAM-TN-27-0044175

CERTIFICATE OF INTERNSHIP

This is to certify that Ms.S.AARTHI (REG NO: 811221106001) a student of the Electronics and Communication Engineering Department, INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY has undergone the 5-Day Internship program from June 19th, 2023 to June 23rd 2023 under the domain

" EMBEDDED SYSTEMS AND APPLICATIONS".

During the Internship period, the performance of the students was found to be good.

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This is to certify that Ms.S.PARKAVI (REG NO: 811221106022) a student of the Electronics and Communication Engineering Department, INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY has undergone the 5-Day Internship program from June 19th, 2023 to June 23rd 2023 under the domain

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This is to certify that Ms.C.THAMILARASI (REG NO: 811221106033) a student of the Electronics and Communication Engineering Department, INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY has undergone the 5-Day Internship program from June 19th, 2023 to June 23rd 2023 under the domain

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This is to certify that Mr.R.VEERAKUMAR (REG NO: 811221106035) a student of the Electronics and Communication Engineering Department, INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY has undergone the 5-Day Internship program from June 19th, 2023 to June 23rd 2023 under the domain

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This is to certify that Mr.S.VELLAISAMY (REG NO: 811221106036) a student of the Electronics and Communication Engineering Department, INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY has undergone the 5-Day Internship program from June 19th, 2023 to June 23rd 2023 under the domain

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This is to certify that Mr.S.VICTORRAJ (REG NO: 811221106037) a student of the Electronics and Communication Engineering Department, INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY has undergone the 5-Day Internship program from June 19th, 2023 to June 23rd 2023 under the domain

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CERTIFICATE OF INTERNSHIP

This is to certify that Mr.V.VISHAL (REG NO: 811221106040) a student of the Electronics and Communication Engineering Department, INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY has undergone the 5-Day Internship program from June 19th, 2023 to June 23rd 2023 under the domain

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This is to certify that Mr.R.OM PRAKASH (REG NO: 811221106301) a student of the Electronics and Communication Engineering Department, INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY has undergone the 5-Day Internship program from June 19th, 2023 to June 23rd 2023 under the domain

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CERTIFICATE OF INTERNSHIP

is to certify that K. Devika 811219106002 Final Year Electronics and Communication Engineering, Indra Ganesan College of Engineering has successfully completed his / her Internship on "ROBOTICS & AUTOMATION" in our concern from 26.12.2022 to 30.12.2022 . We found his / her performance during the Internship period has been satisfactory.

With regards

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> M.Ruthra Moorthy (Manager, Propeller Technologies)

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This is to certify that P.Dayana 811219106001 Final Year Electronics and Communication Engineering, Indra Ganesan College of Engineering has successfully completed his / her Internship on "ROBOTICS & AUTOMATION" in our concern from 26.12.2022 to 30.12.2022. We found his / her performance during the Internship period has been satisfactory.

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This is to certify that S.Ponnarasu 811219106702 Final Year Electronics and Communication Engineering, Indra Ganesan College of Engineering has successfully completed his / her Internship on "ROBOTICS & AUTOMATION" in our concern from 26.12.2022 to 30.12.2022. We found his / her performance during the Internship period has been satisfactory.

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This is to certify that K.Mohana Sundaram 811219106004 Final Year Electronics and Communication Engineering, Indra Ganesan College of Engineering has successfully completed his / her Internship on "ROBOTICS & AUTOMATION" in our concern from 26.12.2022 to 30.12.2022. We found his / her performance during the Internship period has been satisfactory.

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This is to certify that **B.Ravikumar 811219106005** Final Year **Electronics and Communication Engineering, Indra Ganesan College of Engineering** has successfully completed his / her **Internship on "ROBOTICS & AUTOMATION"** in our concern **from 26.12.2022 to 30.12.2022**. We found his / her performance during the Internship period has been satisfactory.

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This is to certify that A.Santhanaraj 811219106006 Final Year Electronics and Communication Engineering, Indra Ganesan College of Engineering has successfully completed his / her Internship on "ROBOTICS & AUTOMATION" in our concern from 26.12.2022 to 30.12.2022. We found his / her performance during the Internship period has been satisfactory.

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This is to certify that M.Srikanth 811219106008 Final Year Electronics and Communication Engineering, Indra Ganesan College of Engineering has successfully completed his / her Internship on "ROBOTICS & AUTOMATION" in our concern from 26.12.2022 to 30.12.2022. We found his / her performance during the Internship period has been satisfactory.

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This is to certify that V. Surya 811219106010 Final Year Electronics and Communication Engineering, Indra Ganesan College of Engineering has successfully completed his / her Internship on "ROBOTICS & AUTOMATION" in our concern from 26.12.2022 to 30.12.2022. We found his / her performance during the Internship period has been satisfactory.

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CERTIFICATE OF INTERNSHIP

This is to certify that S.Yuvashree 811219106301 Final Year Electronics and Communication Engineering, Indra Ganesan College of Engineering has successfully completed his / her Internship on "ROBOTICS & AUTOMATION" in our concern from 26.12.2022 to 30.12.2022. We found his / her performance during the Internship period has been satisfactory.

With regards

+916374146856 propellertechs@gmail.com www.propellertechnologies.in

M.Ruthra Moorthy (Manager, Propeller Technologies)

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

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Research & Development Pvt Ltd No 30. 1st Main Road, Kalvanasundaram Nagar Kanunandabam Tuchy, Tamilhadu India 626001



CERTIFICATE OF INTERNSHIP

This is to certify that V.Vijayalakshmi 811219106701 Final Year Electronics and Communication Engineering, Indra Ganesan College of Engineering has successfully completed his / her Internship on "ROBOTICS & AUTOMATION" in our concern from 26.12.2022 to 30.12.2022. We found his / her performance during the Internship period has been satisfactory.

With regards

+916374146856 propellertechs@gmail.com www.propellertechnologies.in

M.Ruthra Moorthy (Manager, Propeller Technologies)

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

Principal

Indra Ganesan College of Engineering

IG Valley, Madurar Main Road

Manikandam, Inchy-sad 012.

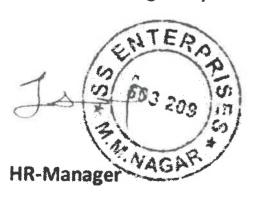


Certificate of Completion INTERNSHIP

This is to certify that **G.Banu Priya 811220106006 III year ECE**, **Indra Ganesan College of Engineering** has successfully completed her **Inplant Training on Foxconn Honai Technology India PVt Ltd.**, in our concern **from 12.06.2023 to 23.06.2023**. We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.



Certificate of Completion INTERNSHIP

This is to certify that J.Jancy 811220106018 III year ECE, Indra Ganesan College of Engineering has successfully completed her Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory

HR-Manager NAGAR

8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.

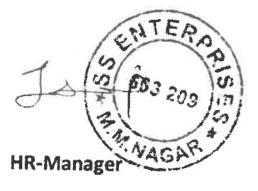


Certificate of Completion INTERNSHIP

This is to certify. that S.Karthika 811220106023 III year ECE, Indra Ganesan College of Engineering has successfully completed her Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH 1 Maraimalai Nagar, Chengalpattu District - 603 209.

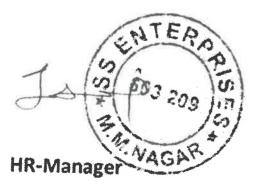


Certificate of Completion INTERNSHIP

This is to certify. that E.Mancy 811220106028 III year ECE, Indra Ganesan College of Engineering has successfully completed her Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Mara malai Nagar, Chengalpattu District - 603 209.



Certificate of Completion INTERNSHIP

This is to certify.that M.Preethika 811220106033 III year ECE , Indra Ganesan College of Engineering has successfully completedher Inplant Training on Foxconn HonaiTechnology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023 . We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her futureendeavors.

For Authorised Signatory

8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.

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

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

nikano

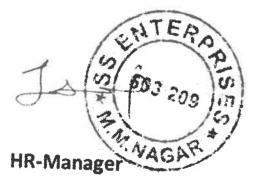


Certificate of Completion INTERNSHIP

This is to certify that M.Premalatha 811220106034 III year ECE, Indra Ganesan College of Engineering has successfully completed her Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Maraimala Nagar, Chengalpattu District - 603 209.

G. Ballinan, M.E., Ph.D.,

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



Certificate of Completion INTERNSHIP

This is to certify that B.Shri Harini Priya 811220106037 III year ECE, Indra Ganesan College of Engineering has successfully completedher Inplant Training on Foxconn HonaiTechnology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her futureendeavors.

For Authorised Signatory

HR-Manager NAGAR

8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.



Certificate of Completion INTERNSHIP

This is to certify that M.Snega 811220106038 III year ECE, Indra Ganesan College of Engineering has successfully completedher Inplant Training on Foxconn HonaiTechnology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her futureendeavors.

For Authorised Signatory

HR-Manager NAGAR

8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.

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

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



Certificate of Completion INTERNSHIP

This is to certify that N.Sobi Amirtha 811220106039 III year ECE, Indra Ganesan College of Engineering has successfully completedher Inplant Training on Foxconn HonaiTechnology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her futureendeavors.

For Authorised Signatory

HR-Manager VAGAR

8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.



Certificate of Completion INTERNSHIP

This is to certify that R.Yoga Priya 811220106049 III year ECE, Indra Ganesan College of Engineering has successfully completed her Inplant Training on Foxconn HonaiTechnology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found her performance during the Internship period has been satisfactory.

We wish all the best for his/her futureendeavors.

For Authorised Signatory

HR-Manager AGAR

8, Rajiv Gandhi Street, HIG, NH-1 Maraimalai Nagar, Chengalpattu District - 603 209.

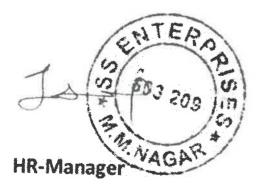


Certificate of Completion INTERNSHIP

This is to certify that B.Sunil Kumar 811220106041 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn HonaiTechnology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her futureendeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1 Maraimala Nagar, Chengalpattu District - 603 209.



Certificate of Completion INTERNSHIP

This is to certify that R.Rajesh 811220106306 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn HonaiTechnology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her futureendeavors.

For Authorised Signatory

HR-Manager NAGAR

8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.

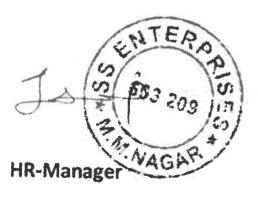


Certificate of Completion INTERNSHIP

This is to certify that J.Prasannaa 811220106032 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn HonaiTechnology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her futureendeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1/Nistajmalai Nagar, Chengalpattu District - 603 209.



Certificate of Completion INTERNSHIP

This is to certify that J.Pradhap 811220106031 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn HonaiTechnology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her futureendeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.

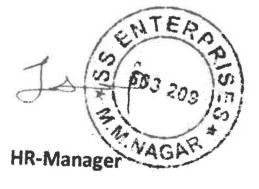


Certificate of Completion INTERNSHIP

This is to certify. that R.Kishore 811220106025 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.

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

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

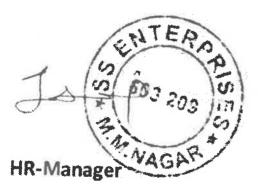


Certificate of Completion INTERNSHIP

This is to certify. that M.Kishore Kumar 811220106026 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.

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

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Main Road
Main Road

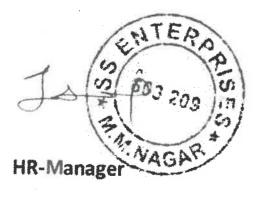


Certificate of Completion INTERNSHIP

This is to certify. that C.karthick 811220106022 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.

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

Principal

Indra Ganesan College of Engineering
IG Welley, Madurai Main Road
Indram. Trichv-626 112.

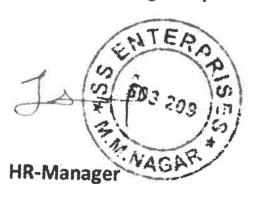


Certificate of Completion INTERNSHIP

This is to certify that S.Kamaraj 811220106021 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.



Certificate of Completion INTERNSHIP

This is to certify that N.Jeevasen 811220106019 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar chengalpattu District - 603 209.



Certificate of Completion INTERNSHIP

This is to certify that C.Bharathidasan 811220106008 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1, Maraimalai Nagar, Chengalpattu District - 603 209.

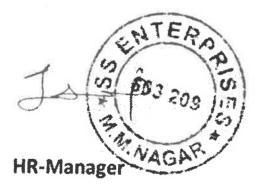


Certificate of Completion INTERNSHIP

This is to certify that R.Anand 811220106301 III year ECE, Indra Ganesan College of Engineering has successfully completed his Inplant Training on Foxconn Honai Technology India PVt Ltd., in our concern from 12.06.2023 to 23.06.2023. We found his performance during the Internship period has been satisfactory.

We wish all the best for his/her future endeavors.

For Authorised Signatory



8, Rajiv Gandhi Street, HIG, NH-1 Naraimala Nagar, Chengalpattu District - 603 209.



Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator- 2.3. Teaching- Learning Process (40)

2022-2023

ELECTRICAL AND COMMUNICATION ENGINEERING PROJECT



Indra Ganesan GOLLEGE OF 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 Medicine Identification And Auditory Output System For Disabled People	rame of the Leaf hing Method
	811219106301	Yuvashree S			EXPERIENTIAL LEARNING METHOD - PROJECT
	811219106701	Vijayalakshmi V			
2	811219106008	Srikanth M	IV / VIII		
	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	
	811219106004	Mohana Sundaram K			
6	811219106702	Ponnarasu S	IV / VIII	Deep learning based safty	
	811219106006	Santhanaraj A		Helmet in Industry	

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

Principal

Indra Ganesan College of Engineering
IG Valley, Modurai Main Road
Menikangan Sahy-620 012.

HOD/ECE

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. Deirerana

SIGNATURE

Prof. N. RAMYA

HEAD OF THE DEPARTMENT

Department of Electronics and

Communication Engineering,

Indra Canesan College of Engineering,

Maduras Main Road, NH-45R.

i mebirapalli-620 nt2

& LL (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

group data Anna I niversity project Viva-Voice examination \$2.105 (2045)

INTERNAL EXAMINER

ENTERNAL ENA

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

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikanda — Trichy-620 0° 2. Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

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

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 Cranesan 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.

Firuclinappalli - 620 012

Submitted for Anna University Project Viva -Voce Examination held on 148/05/2023

4, -12 INDIAN DESMINE

FAILR VI LA MINER

Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikang 1907 (22) 312.

BONAFIDE CERTIFICATE

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

BOUNDARY MONITORING SYSTEM AND NAVIGATION ALERT SYSTEM"

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

Carried out the project work, under my supervision.

Prof N. RAMY A

Mrs P. SANTHANA SELVI

HEAD OF THE DEPARTMENT

SUPERVISOR

Assistant Professor

Repartment of Lieutopics and Contamination

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Tiractoruppetti -620 012

Department of Viccionics and Communication

Luginceting

Indra Ganesan College of Engineering.

Madurai Main Road NII 45B

Lauchtrappalli 62011

Submitted for Arma University Project Viva - Voce I vantination held on 22/05/2023

INTERNAL EXAMINER

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

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 Maduru Main Road, NH-45B, Tirachrappalli - 620 012 SIGNATURE

Prof. N. RAMYA
SUPERVISOR

Department of Electronics and Communication Engineering, Indra Ganesan College of Engineering Madurai Main Road, NH-45B. Tiruchirappalli - 620 012

Submitted for Anna University Project Viva Vocc Examination held on 22,25, 22, 3

PARTY NAMED IN A VIEW

ANTIRAM FAMILIER

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

Principal
Indra Ganesan College of Engineering
IC Valley, Madurai Main Road
Manika A 1829 620 002.

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

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

BONAFIDE CERTIFICATE

Cartified that this project report "IOT BASED SEWER CLOGGING PREDICTION SYSTEM KOR SMART CITY" is the bonafule work of DINESH J (811219106003)" and "MOHANA SUNDARAM K (811219106004) " who carried out the project work under my supervision

SIGNATURE

POT N. RAMYA
HEAD OF THE DEPARTMENT

SIGNATURE

Mrs. P. JENCY LEENA SUPERVISOR

Assistant Professor

Department of Electronics and

Communication Engineering.

Indra Ganesan College of Engineering

Madura Main Road NH-15B

Tiruchirappath - 620 012

Department of Electronics and,

Communication Engineering

Indra Ganesan College of Engineering

Madura Main Road, NH-45B.

Tauchienopalli + 620 012

Submitted for Anna University Project Viva - Voce Examination held on 25 foct and

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

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

Conjection Latery-620 Ct.

Principal
Principal
Indra Ganesan College of Engineering
Addurai Main Road

BONAFIDE CERTIFICATE

Centried that this project report "DEEP LEARNING BASED SAFETY

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

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

SIGNATURE:

Prof. N. RAMYA

HEAD OF THE DEPARTMENT.

Department of Flectronics and

Communication Formering.

Inthir Canesan College of Engineering

Madarat Main Road, NELESB.

Irrahicipal) 620 012

M. B. W. WILLE

DE MEBHUVANESWARI

SUPERVISOR

Associate Professor

Department of Electronies and

Communication Engineering.

ladra Ganesias College of Engageera

Madurai Main Road Nit-45B.

Truchirappath - 620 013

following the Ania University Propert Villa - Voce Examination held on 22 05 2023

MENALENAMENTA 1/5/23

STEETING! TO THE REPORT TO THE

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

Principal

Principal

Idra Ganesan College of Engineering

IG Valley, Madurai Main Road

IG Valley, Madurai Main Road