



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





Indra Ganesan

COLLEGE OF ENGINEERING

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



Criteria 2

Teaching-Learning and Evaluation

350

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

2022-2023

ELECTRICAL AND ELECTRONICS ENGINEERING

EXPERIENTIAL LEARNING

Activity	Number of Students Attended	Page No.
Internship	33	
Project	29	
TOTAL STUDENTS ATTENDED	62	-



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Criteria 2

Teaching-Learning and Evaluation

350

2022-2023

**ELECTRICAL AND ELECTRONICS
ENGINEERING
INTERNSHIP**




Department of Electrical and Electronics Engineering
ACADEMIC YEAR 2022 – 2023

INTERNSHIP DETAILS

S. No	Year	Total No. of Students	Total No. of Students Attended	Register Number of the Students	Company Name	Programme Name	Duration
1.	IV Year / VIII Sem	10	10	811219105001, 811219105002, 811219105003 811219105004, 811219105005, 811219105006 811219105007, 811219105008, 811219105301, 811219105701	Sakthi Auto Components	Basic of Machining	03.04.2023 to 19.04.2023
2.	III Year / VI Sem	19	19	811220105001, 811220105002, 811220105006, 811220105011, 811220105013, 811220105017, 811220105019, 811220105022, 811220105023, 811220105024, 811220105031, 811220105035, 811220105037, 811220105038, 811220105301, 811220105303, 811220105305, 811220105306, 811220105307	MAS solar System PVT Ltd	Solar Management system	17.04.2023 to 26.04.2023
3.	II Year / IV Sem	4	4	811221105012, 811221105018, 811221105027, 811221105039	Microwin Automation	Basic Embedded system	20.04.2023 to 28.04.2023


Internship Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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HoD/EEE



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19/04/2023



INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr. ARULRAJ .A,** (Roll no: 811219105001) **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING** Final year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY,** has successfully completed his **INTERNSHIP** at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr. ARULRAJ .A** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

FOR SAKTHI AUTO COMPONENT LIMITED

(TAMILARASAN K K)
MANAGER (HR&DEVELOPMENT)



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

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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr. BARATHM.M**, (Roll no: 811219105002) **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING** Final year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr. BARATHM.M** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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This is to certify that **Mr. MANIKANDAN K**, (Roll no: 811219105004) **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING** Final year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr. MANIKANDAN K** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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INTERNSHIP TRAINING

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This is to certify that **MS. PONNALAGU C**, (Roll no: 811219105005) **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING** Final year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed her **INTERNSHIP** at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

Her attendance and performance during the Internship period was **good** and **MS. PONNALAGU C** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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INTERNSHIP TRAINING

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This is to certify that **Mr. SALAMON A**, (Roll no: 811219105006) **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING** Final year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr.SALAMON A** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

FOR SAKTHI AUTO COMPONENT LIMITED

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This is to certify that Mr. SARAVANAKUMAR M, (Roll no: 811219105007) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING Final year student of INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY, has successfully completed his INTERNSHIP at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and Mr. SARAVANAKUMAR M was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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This is to certify that **SOLAIMATHI .K.**, (Roll no: 811219105008) **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING** Final year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed her **INTERNSHIP** at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

Her attendance and performance during the Internship period was **good** and **SOLAIMATHI .K.** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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This is to certify that Mr. VENKATRAMAN.A, (Roll no: 811219105301) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING Final year student of INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY, has successfully completed his INTERNSHIP at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

His attendance and performance during the Internship period was good and Mr. VENKATRAMAN.A was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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This is to certify that **Mr. DHEVENTHIRAN .P**, (Roll no: 811219105701) **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING** Final year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr. DHEVENTHIRAN .P** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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This is to certify that **Mr. MANIKANDAN A**, (Roll no: 811219105003) **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING** Final year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**. has successfully completed his **INTERNSHIP** at our works from 03.04.2023 to 19.04.2023 as per our guidelines and procedure.

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MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

This to certify that ABINESH. T B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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

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Prince Anand L.
PRINCE ANAND. L
Training Head

R. Sudarsan
R. SUDARSAN
Sr. Executive - HR

K. Suganthi
K. SUGANTHI
Managing Director



MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

This to certify that ALEX IMMANVEL.S B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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

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PRINCE ANAND. L
Training Head

R. SUDARSAN
Sr. Executive - HR

K. SUGANTHI
Managing Director



MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

This to certify that **BALAMURUGAN.A B.E.**, (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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



MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

This to certify that DIVYA.B B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

Dr. G. Balakrishnan, M.E., Ph.D.,
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PRINCE ANAND. L
Training Head

R. SUDARSAN
Sr. Executive - HR

K. SUGANTHI
Managing Director



MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

This to certify that GAYATHRI.M B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

Dr. G. Balakrishnan, M.E., Ph.D.,
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K. SUGANTHI
Managing Director



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CERTIFICATE OF INTERNSHIP

This to certify that KARTHIK.D B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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

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Sr. Executive - HR

K. SUGANTHI
Managing Director



MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

This to certify that LATCHIYA.K B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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

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Managing Director

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R. SUDARSAN
Sr. Executive - HR



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CERTIFICATE OF INTERNSHIP

This to certify that MANIKANDAN.K B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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K. SUGANTHI
Managing Director



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CERTIFICATE OF INTERNSHIP

This to certify that MOHANDOSS.S B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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

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This to certify that NAVEEN.R B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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



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CERTIFICATE OF INTERNSHIP

This to certify that SANDURU.K B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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

R. SUDARSAN
Sr. Executive - HR

K. SUGANTHI
Managing Director



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CERTIFICATE OF INTERNSHIP

This to certify that SHANMUGAM S B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

Dr. G. Balakrishnan, M.E., Ph.D.,
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CERTIFICATE OF INTERNSHIP

This to certify that SNEKA T B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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

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Managing Director



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CERTIFICATE OF INTERNSHIP

This to certify that SOPHIYA K B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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Managing Director



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CERTIFICATE OF INTERNSHIP

This to certify that AARTHI S B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

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

PRINCE ANAND. L
Training Head

R. SUDARSAN
Sr. Executive - HR

K. SUGANTHI
Managing Director




MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

This to certify that DHIVYA BHARATHI B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.


PRINCE ANAND. L
Training Head


R. SUDARSAN
Sr. Executive - HR


K. SUGANTHI
Managing Director



Dr. G. Balakrishnan, M.E., Ph.D.,
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MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

This to certify that THIRUNAVUKARASU M B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System

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PRINCE ANAND. L
Training Head

R. SUDARSAN
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K. SUGANTHI
Managing Director



MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

This to certify that VENKATESHWARAN B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

Dr. G. Balakrishnan, M.E., Ph.D.,
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PRINCE ANAND. L
Training Head

R. SUDARSAN
Sr. Executive - HR

K. SUGANTHI
Managing Director



MAS Solar Systems Private Limited

CERTIFICATE OF INTERNSHIP

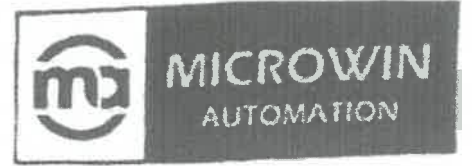
This to certify that SATHISH KUMAR.V B.E., (Third Year) (Electrical and Electronics Engineering) Student of Indra Ganesan College of Engineering completed Internship Training Successfully from 17.04.2023 to 26.04.2023 in the Field of Solar Management System.

Dr. G. Balakrishnan, M.E., Ph.D.,
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PRINCE ANAND. L
Training Head

R. SUDARSAN
Sr. Executive - HR

K. SUGANTHI
Managing Director



Date: 28.04.23

TO WHOM IT MAY CONCERN.

This to certify that **B.E., (Second Year) (Electrical and Electronics Engineering)** Reg. No 811221105012- **Hariharan.E** Student of **Indra Ganesan College of Engineering** completed Internship Training Successfully From 20.4.23 to 28.04.23.

During this period, he had shown exemplary attitude and involvement.

We wish you best of luck for your future endeavours

For Microwin Automation

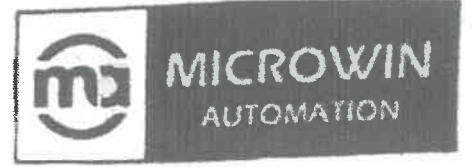
R. Saha

Training Head



Dr. G. Balakrishnan

Dr. G. Balakrishnan, M.E., Ph.D.,
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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Date: 28.04.23

TO WHOM IT MAY CONCERN.

This to certify that **B.E., (Second Year) (Electrical and Electronics Engineering)** Reg. No 811221105012- **Lingeswaran R** Student of **Indra Ganesan College of Engineering** completed Internship Training Successfully From 20.4.23 to 28.04.23

During this period, he had shown exemplary attitude and involvement.

We wish you best of luck for your future endeavours

For Microwin Automation

R. S. K.
Training Head



G. Balakrishnan
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Manikandam, Trichy-620 012.



Date: 28.04.23

TO WHOM IT MAY CONCERN.

This to certify that **B.E., (Second Year) (Electrical and Electronics Engineering) Reg .No 811221105027- Sangili S** Student of **Indra Ganesan College of Engineering** completed Internship Training Successfully From 20.4.23 to 28.04.23.

During this period, he had shown exemplary attitude and involvement.

We wish you best of luck for your future endeavours

For Microwin Automation

A handwritten signature in black ink, appearing to read 'R. Sathya'.

Training Head



A handwritten signature in blue ink, appearing to read 'Dr. G. Balakrishnan'.

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

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Date: 28.04.23

TO WHOM IT MAY CONCERN.

This to certify that **B.E., (Second Year) (Electrical and Electronics Engineering)** Reg .No **811221105039-** **Srikanth M** Student of **Indra Ganesan College of Engineering** completed Internship Training Successfully From 20.4.23 to 28.04.23.

During this period, he had shown exemplary attitude and involvement.

We wish you best of luck for your future endeavours

For Microwin Automation

A handwritten signature in black ink, appearing to read 'R S K'.

Training Head



A handwritten signature in green ink, appearing to read 'G. Balakrishnan'.

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Indra Ganesan

COLLEGE OF ENGINEERING

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



Criteria 2

Teaching-Learning and Evaluation

350

2022-2023

ELECTRICAL AND ELECTRONICS ENGINEERING

PROJECT



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
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Department of Electrical and Electronics Engineering

ACADEMIC YEAR 2022 – 2023

Problem Solving Method – Mini Project

Batch No.	Registration No	Name of the Student	Year / Sem	Topic	Name of the Learning			
1	811220105011	Divya	III / VI	WATER MONITORING SYSTEM IN AGRICULTURE	PROBLEM SOLVING METHOD – MINI PROJECT			
	811220105013	Gayathri						
	811220105019	Latchiya						
2	811220105037	Sneka	III / VI	IOT BASED WOMEN SAFETY SYSTEM		PROBLEM SOLVING METHOD – MINI PROJECT		
	811220105038	Sophiya						
	811220105301	Aarthi						
3	811220105302	Divya Bharathi	III / VI	IOT BASED TEMPRATURE AND HUMIDITY CONTROLLER			PROBLEM SOLVING METHOD – MINI PROJECT	
	811220105024	Naveen						
	811220105031	Sanduru						
4	811220105035	Shanmugam	III / VI	IOT BASED TOXIC GAS DETECTION SYSTEM				PROBLEM SOLVING METHOD – MINI PROJECT
	811220105305	Sathish Kumar						
	811220105306	Thirunavukarasu						
5	811220105307	Venkateshwaran	III / VI	ALERT SOUND SYSTEM FOR E VECHILE	PROBLEM SOLVING METHOD – MINI PROJECT			
	811220105002	Alex						
	811220105017	Karthik						
6	811220105022	Manikandan	III / VI	IOT BASED SOLAR PANEL MONITORING		PROBLEM SOLVING METHOD – MINI PROJECT		
	811220105001	Abinesh						
	811220105006	Balamurugan						
	811220105023	Mohandoss						

Dr. G. Balakrishnan, M.E., Ph.D.,
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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

A. Malathi
HOD/EEE

WATER MONITORING SYSTEM IN AGRICULTURE

A PROJECT REPORT

Submitted by

DIVYA.B

LATCHIYA.K

GAYATHRI.M

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING
INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY.

ANNA UNIVERSITY: CHENNAI-600 025

MAY-2023.



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

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.

BONAFIDE CERTIFICATE

Certified that this project report " **WATER MONITORING SYSTEM IN AGRICULTURE** " is the Bonafide work of " **DIVYA.B(811220105011), LATCHIYA.K(811220105019),GAYATHRI.M(811220105013)**" who carried out the project work under my supervision.


SIGNATURE


SIGNATURE

Mr.D.Praveen sangeeth kumar, M.Tech.,

Mrs.J.Belcy Jenifer,ME.,

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Assistant Professor,

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Trichy-12.



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INTERNAL EXAMINER


EXTERNAL EXAMINER

IOT BASED WOMEN SAFETY SYSTEM

A PROJECT REPORT

Submitted by

AARTHIS

SNEKA.T

SOPHIYA.K

DIVYA BHARATHI.M

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

**ELECTRICAL AND ELECTRONICS ENGINEERING
INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY.**

ANNA UNIVERSITY : CHENNAI-600 025

MAY-2023



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

BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED WOMEN SAFETY SYSTEM" is the bonafide work of AARTHIS (811220105301), SNEKA.T (811220105037), SOPHIYA.K (811220105038), DIVYA BHARATHI.M (811220105302) who carried out the project work under my supervision.

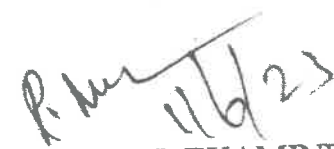

SIGNATURE


Mr.D.Praveen sangeeth kumar,M.TECH.,
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HEAD OF THE DEPARTMENT,
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Trichy -12.


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Mrs .J.BELCY JENIFER,M.E.,
Assistant Professor,
SUPERVISOR,
Department of EEE,
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Engineering,
Trichy -12.


INTERNAL EXAMINER


EXTERNAL EXAMINER


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

**IOT BASED TEMPERATURE AND HUMIDITY
CONTROLLER**

A PROJECT REPORT

Submitted by

NAVEEN.R

SANDURU .K

SHANMUGAM.S

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

In

**ELECTRICAL AND ELECTRONICS ENGINEERING
INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY.
ANNA UNIVERSITY: CHENNAI-600 025**

MAY- 2023



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 report "IOT BASED TEMPERATURE AND HUMIDITY CONTROLLER" is the Bonafide work of "NAVEEN.R (811220105024), SANDURU.K (8112201 05031), SHANMUGAM.S(811220105035)" who carried out the project work under my supervision.


SIGNATURE


Mr.D.Praveensangeethkumar, M.Tech.,
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Assistant Professor,
EEE Department,
Indra Ganesan College of
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Trichy -12.


SIGNATURE

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INTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. G. Balakrishnan, M.E., Ph.D.,
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Manikandam, Trichy-620 012.

IOT BASED TOXIC GAS DETECTION SYSTEM

A PROJECT REPORT

Submitted by

**SATHEESHKUMAR.V
VENKATESHWARAN.A
THIRUNAVUKARASU.M**

In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

In

**ELECTRICAL AND ELECTRONICS ENGINEERING
INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY.
ANNA UNIVERSITY:CHENNAI-600 025**

MAY-2023



Dr. G. Balakrishnan, M.E., Ph.D.,
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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

BONAFIDE CERTIFICATE

Certified that this project report "**IOT BASED TOXIC GAS DETECTION SYSTEM**" the bonafide work of "**SATHEESHKUMAR.V (811220105305), VENKATESHWARAN.A (811220105307), THIRUNAVUKARASU.M**" who carried out the project work under my supervision.


SIGNATURE


SIGNATURE

D. Praveen sangeeth kumar, M.TECH.,

Mr. D. Praveen sangeeth kumar, M.TECH.,

HEAD OF THE DEPARTMENT

SUPERVISOR

Assistant Professor,

Assistant Professor,

EEE Department,

EEE Department,

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Indra Ganesan College of Engineering,

Trichy -12.

Trichy-12.


INTERNAL EXAMINER


EXTERNAL EXAMINER

ALERT SOUND SYSTEM FOR E-VEHICLE

A PROJECT REPORT

Submitted by

KARTHIK.D

MANIKANDAN.K

ALEX IMMANUVEL.S

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

In

**ELECTRICAL AND ELECTRONICS ENGINEERING
INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY.
ANNA UNIVERSITY:CHENNAI-600 025**

MAY-2023



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 report "ALERT SOUND SYSTEM FOR E-VEHICLE" is the bonafide work of "KARTHIK.D (811220105017), MANIKANDAN.K (811220105022), ALEX IMMANUVEL.S (811220105002)" who Carried out the project work under my supervision.


SIGNATURE

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SIGNATURE

Mr.B.Arunpandiyan,M.TECH.,

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Assistant Professor,

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Trichy-12.


INTERNAL EXAMINER


EXTERNAL EXAMINER


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

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

IOT BASED SOLAR PANEL MONITORING

A PROJECT REPORT

Submitted by

ABINESH.T

BALAMURUGAN.A

MOHANDOSS.S

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

In

ELECTRICAL AND ELECTRONICS ENGINEERING

INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY.

ANNA UNIVERSITY:CHENNAI-600 025

MAY-2023



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

BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED SOLAR PANEL MONITORING" is the bonafide work of "ABINESH.T (811220105001), SALAMURUGANA.A (811220105006), MOHANDOSS.S (811220105023)" who carried out the project work under my supervision.


SIGNATURE

Mr. D. Praveen Sangeeth Kumar, M.TECH.,

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SIGNATURE

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INTERNAL EXAMINER


EXTERNAL EXAMINER