



# 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, NewDelhi & Affiliated to Anna University, Chennai  
NAAC Accredited, 2(F) Status Institution by UGC



**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 ELECTRICAL AND ELECTRONICS  
ENGINEERING**



# Indra Ganesan

## COLLEGE OF ENGINEERING

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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	
	811220105038	Sophiya			
	811220105301	Aarthi			
	811220105302	Divya Bharathi			
3	811220105024	Naveen	III / VI	IOT BASED TEMPRATURE AND HUMIDITY CONTROLLER	
	811220105031	Sanduru			
	811220105035	Shanmugam			
4	811220105305	Sathish Kumar	III / VI	IOT BASED TOXIC GAS DETECTION SYSTEM	
	811220105306	Thirunavukarasu			
	811220105307	Venkateshwaran			
5	811220105002	Alex	III / VI	ALERT SOUND SYSTEM FOR E VECHILE	
	811220105017	Karthik			
	811220105022	Manikandan			
6	811220105001	Abinesh	III / VI	IOT BASED SOLAR PANEL MONITORING	
	811220105006	Balamurugan			
	811220105023	Mohandoss			

*(Signature)*  
**Dr. G. Balakrishnan, M.E., Ph.D.,**  
Principal  
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IG Valley, Madurai Main Road  
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*(Signature)*  
**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

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**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.

  
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SIGNATURE

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Mrs.J.Belcy Jenifer,ME.,

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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*

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**BACHELOR OF ENGINEERING**

**IN**

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**ANNA UNIVERSITY : CHENNAI-600 025**

**MAY-2023**



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**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.

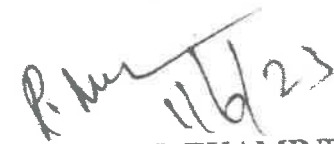
  
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INTERNAL EXAMINER

  
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# **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  
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**ANNA UNIVERSITY: CHENNAI-600 025**

**MAY- 2023**



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**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

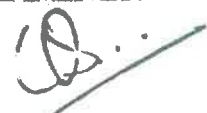
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# **IOT BASED TOXIC GAS DETECTION SYSTEM**

**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**

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**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.

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D.Praveen sangeeth kumar, M.TECH.,

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**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*

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**BACHELOR OF ENGINEERING**

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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.

  
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INTERNAL EXAMINER

  
EXTERNAL EXAMINER



# **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**

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**ANNA UNIVERSITY:CHENNAI-600 025**

**MAY-2023**



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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.

  
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INTERNAL EXAMINER

  
EXTERNAL EXAMINER



# Indra Ganesan

## COLLEGE OF ENGINEERING

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### Department of Electrical and Electronics 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	811219105006	Salamon A	IV / VIII	Smart Car Parking System	EXPERIENTIAL LEARNING METHOD - PROJECT
	811219105007	Saravanakumar M.			
	813919105301	Venkatraman.A			
2	811219105003	Manikandan A	IV / VIII	IOT based Electrical device surveillance & controlling system	
	811219105002	Barath M.M			
	811219105701	Dheventhiran .P			
3	811219105005	Ponnalagu C	IV / VIII	Solar energy based Smart agriculture irrigation system	
	811219105008	Solaimathi .K			
	811219105004	Manikandan K			
	811219105001	Arul raj .A			

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A. malathi  
HOD/EEE

# **SMART CAR PARKING SYSTEM**

## **A PROJECT REPORT**

**Submitted by**

**SALAMON.A**

**SARAVANAKUMAR.M**

**VENKATRAMAN.A**

*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 "SMART CAR PARKING SYSTEM" is the bonafide work of SALAMON.A(811219105006),SARAVANAKUMAR.M(811219105007), VENKATRAMAN.A(811219105301)" who carried out the project work under my supervision.

  
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INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
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**IOT BASED ELECTRONICS DEVICE SURVEILLANCE  
AND CONTROL SYSTEM  
A PROJECT REPORT**

**Submitted by  
BARATH.M  
MANIKANDAN.A  
DHEVENTHIRAN.P**

*In partial fulfilment for the award of the degree*

**Of**

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRICAL AND ELECTRONICS ENGINEERING  
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**MAY 2023**



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ANNA UNIVERSITY : CHENNAI-600 025

**BONAFIDE CERTIFICATE**

Certified that this project report "IOT BASED ELECTRONICS DEVICE

**SURVEILLANCE & CONTROL SYSTEM"** is the bonafide work of

**BARATH.M(811219105002), MANIKANDAN.A(811219105003),**

**DHEVENTHIRAN.P(811219105701)"** who carried out the project work under my supervision.



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**HEAD OF THE DEPARTMENT**

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**Mr.D.Praveen sangeeth kumar, ME..**


**SUPERVISOR**

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**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**A SOLAR ENERGY-BASED SMART  
AGRICULTURE IRRIGATION SYSTEM**

**A PROJECT REPORT**

**Submitted by**

**ARULRAJ.A**

**MANIKANDAN.K**

**PONNALAGU. C**

**SOLAIMATH.K**

*In partial fulfilment for the award of the degree*

**Of**

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**IN**

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**INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY.**

**ANNA UNIVERSITY: CHENNAI-600 025**

**MAY 2023**



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ANNA UNIVERSITY : CHENNAI-600 025

**BONAFIDE CERTIFICATE**

Certified that this project report "A SOLAR ENERGY- BASED SMART AGRICULTURE IRRIGATION SYSTEM " is the Bonafide work of " ARULRAJ.A(811219105001), MANIKANDAN.K(811219105004),PONNALAGU.C(811219105005), SOLAIMATHI.K(811219105008)" who carried out the project work under my supervision.

  
**SIGNATURE**

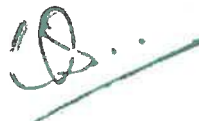
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INTERNAL EXAMINER

  
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