ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai
Accredited by NAAC
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

ACADEMIC YEAR

2024-2025

# 2.3.1 PROBLEM SOLVING METHODOLOGY

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
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Accredited by NAAC
Anguchettypalayam, Panruti – 607 106.

## 2.3 Teaching Learning Process

# PROBLEM SOLVING METHODOLOGY

| S. No | Content |
|---|---|
| 1 | MAIN PROJECT |
| 2 | IDEA CONTEST |
| 3 | SMART INDIA HACKATHON 2024 |
| 4 | PROBLEM BASED CURRICULUM INTEGRATED COURSES |

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# MAIN PROJECT

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI – 607 106

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## PROJECT BATCH LIST

**PERIOD:** FEB – MAY 2025 **BATCH:** 2021-2025 **YEAR/ SEMESTER:** IV/ VIII

| TEAM | S. NO. | REGISTER NO. | NAME OF THE STUDENT | NAME OF THE GUIDE | TITLE OF THE PROJECT |
|---|---|---|---|---|---|
| 1. | 1. | 422121104007 | ASHOK NAVEEN KUMAR. A | Ms. K. Devika | Dineflow - Restaurant Management With Smart Order Protection. |
| | 2. | 422121104010 | CHANDRAKUMAR V | | |
| | 3. | 422121104006 | ASATH. A | | |
| | 4. | 422121104053 | THAMARAISELVAN K | | |
| 2. | 5. | 422121104021 | JEYORGIS ALISTON B | Mr. S. Manavalan | WorkConnect - Empowering Workers & Homeowners Through Seamless Job Solutions. |
| | 6. | 422121104005 | ARUNPANDI R | | |
| | 7. | 422121104047 | SUJAN. P | | |
| | 8. | 422121104054 | UDHAYAKUMAR U | | |
| 3. | 9. | 422121104032 | MUHAMMAD ANAS S | Ms. S. Abinaya | AI - Powered Resume Screening And Interview Question Generation |
| | 10. | 422121104001 | ABILASH. I | | |
| | 11. | 422121104045 | SHANMUGAPRIYAN.P | | |
| | 12. | 422121104030 | MOHAMED ALI M A | | |
| 4. | 13. | 422121104041 | ROSHANWILLSON .V | Sr. A. Punitha Jilt | Smart Animal Detection & Crop Protection. |
| | 14. | 422121104015 | GOPINATH A | | |
| | 15. | 422121104022 | KAMALEESHWARAN.V | | |
| | 16. | 422121104027 | KAVIYARASAN .V | | |
| 5. | 17. | 422121104055 | VASANTH.F | Mrs. M. Subathiradevi | Detection And Prediction of Image Transmuting By Using PFDNet. |
| | 18. | 422121104039 | RAMKUMAR.M | | |
| | 19. | 422121104044 | SARMESH.S | | |
| | 20. | 422121104048 | SUNILKUMAR.S | | |

| | | | | | |
|---|---|---|---|---|---|
| 6. | 21. | 422121104038 | **RAJKUMAR.K** | Ms. S. Guani A Sabi | Tailor Me - The Virtual Tailoring Experience Using AR Technology. |
| | 22. | 422121104012 | DINESH.S | | |
| | 23. | 422121104017 | JAGADEESH.V | | |
| | 24. | 422121104304 | SATHISHKUMAR R | | |
| 7. | 25. | 422121104056 | **VASANTHAKUMAR V** | Mr. R. Manickavasagan | AI - Powered Study And Student Assistant. |
| | 26. | 422121104008 | BALAMURUGAN. R | | |
| | 27. | 422121104029 | LOGITHKUMAR.A | | |
| | 28. | 422121104059 | VINOTH .V | | |
| 8. | 29. | 422121104002 | **ABINAYA M** | Ms. V. Keerthana | A Blockchain-Based Forensic Evidence Management System. |
| | 30. | 422121104023 | KANIHA.M | | |
| | 31. | 422121104050 | SUSI. J | | |
| | 32. | 422121104051 | SUWATHI D N | | |
| 9. | 33. | 422121104057 | **VIDHYA .K** | Ms. K. Kayalvizhi | Doctor Appointment Booking Website Using Cloudinary And Next.Js. |
| | 34. | 422121104302 | KAMALI R | | |
| | 35. | 422121104026 | KAVIYAPRIYA. R | | |
| | 36. | 422121104037 | RAGAVINOTHINI.R | | |
| 10. | 37. | 422121104024 | **KARTHIKA. A** | Ms. T. Gayathiri | Diabetic Retinopathy Prediction Using Dianet. |
| | 38. | 422121104004 | AGNES MARIA.M | | |
| | 39. | 422121104014 | GEETHA R | | |
| | 40. | 422121104060 | VISHNUPRIYA. V | | |
| 11. | 41. | 422121104016 | **ISHWARYA M** | Mr. S. Manavalan | Tire Crack Detection Using RESNet Model. |
| | 42. | 422121104019 | JEEVA A | | |
| | 43. | 422121104035 | PARKAVI. B | | |
| | 44. | 422121104043 | SARGUNADEVI C | | |

| | | | | | |
|---|---|---|---|---|---|
| 12. | 45. | 422121104049 | SUSHMITHA .A | Sr. A. Punitha Jilt | Multi Cancer Prediction Using Deep Learning. |
| | 46. | 422121104020 | JENISHA.L | | |
| | 47. | 422121104058 | VIJAYALAKSHMI.S | | |
| | 48. | 422121104301 | ASHIKA S | | |
| 13. | 49. | 422121104009 | BHAGYASRI S | Mr. R. Manickavasagan | Vision Powered Computing – A Virtual Mouse Via Eye Tracking. |
| | 50. | 422121104036 | PIOSHALBI A | | |
| | 51. | 422121104018 | JAYASRI. B | | |
| 14. | 52. | 422121104046 | SOWMIYA G | Mrs. M. Subathiradevi | Smart Complaint Tracking & Escalation System. |
| | 53 | 422121104025 | KAVIYA S | | |
| | 54. | 422121104033 | NATHIYA. D | | |

PROJECT COORDINATOR

HoD

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# Detection and Prediction of image transmuting by using PFDNet

A PROJECT REPORT

Submitted by


| | |
|---|---|
| Vasanth. F | 422121104055 |
| Ram Kumar. M | 422121104039 |
| Sarmesh. S | 422121104044 |
| SunilKumar. S | 422121104048 |


*in partial fulfilment for the award of the degree*

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BACHELOR OF ENGINEERING

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ANNA UNIVERSITY::CHENNAI 600 025


MAY 2025

## BONAFIDE CERTIFICATE

Certified that this project report **"Detection and Prediction of image transmuting by using PFDNet"** is the Bonafide work of **Vasanth. F (422121104055), Ram Kumar. M (422121104039), Sarmesh. S (422121104044), SunilKumar. S (422121104048)** who carried out the project work under my supervision.

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**Internal Examiner**

27/5/25
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# Vision-Powered Computing: A Virtual Mouse via Eye Tracking

*A PROJECT REPORT*

*Submitted by*


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# ANNA UNIVERSITY::CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report **Vision-Powered Computing: A Virtual Mouse via Eye Tracking** is the bonafide work of **BHAGYASRI.S (422121104009) JAYASRI.B (422121104018) PIOSHALBI.A (422121104036)** who carried out the project work under my supervision.

26/05/2025

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**Internal Examiner**

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# TIRE CRACK DETECTION USING RESNET MODEL

A PROJECT REPORT

*Submitted By*


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| ISHWARYA. M | 422121104016 |
| JEEVA. A | 422121104019 |
| PARKAVI. B | 422121104035 |
| SARGUNADEVI. C | 422121104043 |


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ANNA UNIVERSITY: CHENNAI 600 025

MAY 2025

# BONAFIDE CERTIFICATE

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**INTERNAL EXAMINER**

27/5/25

**EXTERNAL EXAMINER**

# DINEFLOW- RESTAURANT MANAGEMENT WITH SMART ORDER PROTECTION

**A PROJECT REPORT**

**Submitted By**


| | |
|---|---|
| ASATH.A | 422121104006 |
| ASHOK NAVEEN KUMAR . A | 422121104007 |
| CHANDRAKUMAR.V | 422121104010 |
| THAMARAISELVAN.K | 422121104053 |


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**MAY 2025**

## BONAFIDE CERTIFICATE

Certified that this project report **"DINEFLOW-RESTAURANT MANAGEMENT WITH SMART ORDER PROTECTION"** is the Bonafide work of **A.ASATH(422121104006), A.ASHOK NAVEEN KUMAR (422121104007), V.CHANDRAKUMAR (422121104010), K.THAMARAISELVAN (422121104053)** who carried out the project work under my supervision.

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**External Examiner**

# AI POWERED STUDY AND STUDENT ASSISTANT

A PROJECT REPORT

Submitted by


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| V. VASANTHAKUMAR | (422121104056) |
| R. BALAMURUGAN | (422121104008) |
| A. LOGITH KUMAR | (422117104029) |
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*in partial fulfilment for the award of the degree*

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ANNA UNIVERSITY::CHENNAI 600 025

MAY 2025

# ANNA UNIVERSITY::CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report "**AI POWERED STUDY AND STUDENT ASSISTANT**" is the bonafide work of **V. VASANTHAKUMAR (422121104056), R. BALAMURUGAN (422121104008), A. LOGITH KUMAR (422117104029), V. VINOTH (422121104059)** who carried out the project work under my supervision.

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Submitted for the Project Viva-Voce examination held on ..27/05/2025

**Internal Examiner**

27/5/25
**External Examiner**

# DOCTOR APPOINTMENT BOOKING WEBSITE USING CLOUDINARY AND NEXT.JS

A PROJECT REPORT

Submitted by


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| K. VIDHYA | (422121104057) |
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| R. KAVIYAPRIYA | (422121104026) |


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ANNA UNIVERSITY::CHENNAI 600 025

MAY 2025

## ANNA UNIVERSITY::CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report **"DOCTOR APPOINTMENT BOOKING WEBSITE USING CLOUDINARY AND NEXT.JS"** is the bonafide work of **K.VIDHYA (422121104057), R.RAGAVINOTHINI (422117104037), R.KAMALI (422121104302), R.KAVIYAPRIYA (422121104026),** who carried out the project work under my supervision.

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# AI – POWERED RESUME SCREENING AND INTERVIEW QUESTION GENERATION

A PROJECT REPORT

Submitted By


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| L. ABILASH | 422121104001 |
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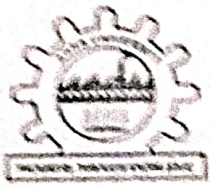
BACHELOR OF ENGINEERING

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MAY 2025

# BONAFIDE CERTIFICATE

Certified that this project report **"AI – POWERED RESUME SCREENING AND INTERVIEW QUESTION GENERATION"** is the Bonafide work of **ABILASH I (422121104001), MOHAMED ALI M (422121104030), MUHAMMAD ANAS S (422121104032), SHANMUGAPRIYAN P (422121104045)** who carried out the project work under my supervision.

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**Ms. S. ABINAYA, M.E.,**
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**External Examiner** 27/5/25

# DIABETIC RETINOPATHY PREDICTION USING DIANET

A PROJECT REPORT

Submitted by


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| AGNES MARIA M | 422121104004 |
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ANNA UNIVERSITY:CHENNAI 600 025

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Certified that this project report **"DIABETIC RETINOPATHY PREDICTION USING DIANET"** is the bonafide work of **M.AGNES MARIA (422121104004), R.GEETHA (422121104014), A.KARTHIKA (422121104024), V.VISHNU PRIYA (422121104060)** who carried out the project work under my supervision.

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**Internal Examiner**

**External Examiner**

# EMPOWERING WORKERS & HOMEOWNERS THROUGH SEAMLESS JOB SOLUTIONS

A PROJECT REPORT

*Submitted By*


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|---|---|
| B. JEYORGIS ALISTON | 422121104021 |
| R. ARUNPANDI | 422121104005 |
| P. SUJAN | 422121104047 |
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ANGUCHETTYPALAYAM, PANRUTI





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MAY 2025

# BONAFIDE CERTIFICATE

Certified that this project report **"EMPOWERING WORKERS & HOMEOWNERS THROUGH SEAMLESS JOB SOLUTIONS"** is the Bonafide work of **ARUNPANDI R (422121104005), JEYORGIS ALISTON B (422121104021), SUJAN P (422121104047), UDHAYAKUMAR U (422121104045)** who carried out the project work under my supervision.

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**Internal Examiner**

27/5/25

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# SMART ANIMAL DETECTION AND CROP PROTECTION

A PROJECT REPORT

*Submitted by*


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|---|---|
| ROSHAN WILLSON.V | 422121104041 |
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# SMART COMPLAINT TRACKING AND ESCALATION SYSTEM

**A PROJECT REPORT**

*Submitted by*


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|---|---|
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| **S. KAVIYA** | **422121104023** |
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**MAY 2025**

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Certified that this project report **"PEDNet:Smart Complaint Tracking And Escalation System"** is the bonafide work of **SOWMIYA. G (422121104046), KAVIYA. S (422121104023), NATHIYA. D (422121104033)** who carried out the project work under my supervision.

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**INTERNAL EXAMINER**

27/5/25

**EXTERNAL EXAMINER**

# Virtual Mirror: AI-Powered Size Detection and Virtual Garment Fitting in Physical Stores

A PROJECT REPORT

Submitted By


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| V. JAGADEESH | 422121104017 |
| K. RAJKUMAR | 422121104038 |
| R. SATHISHKUMAR | 422121104304 |


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MAY 2025

# BONAFIDE CERTIFICATE

Certified that this project report "**Virtual Mirror : AI-Powered Size Detection and Virtual Garment Fitting in Physical Stores .**" is the Bonafide work of **DINESH S (422121104012), JAGADEESH V (422121104017), RAJKUMAR K(422121104038), SATHISHKUMAR R (422121104304)** who carried out the project work under my supervision.

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Submitted for the Project Viva-Voce examination held on 27/05/2025 FAN

**Internal Examiner**

27/5/25

**External Examiner**

# A BLOCKCHAIN - BASED FORENSIC EVIDENCE MANAGEMENT SYSTEM

A PROJECT REPORT

Submitted By


| | |
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| KANIHA.M | 422121104023 |
| SUSI.J | 422121104050 |
| SUWATHI.D.N | 422121104051 |


*in partial fulfilment for the award of the degree of*

BACHELOR OF ENGINEERING

*in*

COMPUTER SCIENCE AND ENGINEERING


ST.ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI



ANNA UNIVERSITY::CHENNAI 600 025

MAY 2025

# BONAFIDE CERTIFICATE

Certified that this project report **"A BLOCKCHAIN-BASED FORENSIC EVIDENCE MANAGEMENT SYSTEM "** is the bonafide work of **M.ABINAYA (422121104002), M.KANIHA (422121104023), J.SUSI (422121104050), D.N.SUWATHI (422121104051)** who carried out the project work under my supervision.

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**Internal Examiner**

**External Examiner**

# MULTI CANCER PREDICTION USING DEEP LEARNING

A PROJECT REPORT

Submitted By


| | |
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| JENISHA L | 422121104020 |
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| VIJAYALAKSHMI S | 422121104058 |
| ASHIKA S | 422121104301 |


*in partial fulfilment for the award of the degree*

*of*

BACHELOR OF ENGINEERING

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ANGUCHETTYPALAYAM, PANRUTI




ANNA UNIVERSITY: CHENNAI 600 025

MAY 2025

# BONAFIDE CERTIFICATE

Certified that this project report "**MULTI CANCER PREDICTION USING DEEP LEARNING**" is the Bonafide work of **JENISHA L (422121104020), SUSHMITHA A (422121104049), VIJAYALAKSHMI S (422121104058), ASHIKA S (422121104301)** who carried out the project work under my supervision.

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Submitted for the Project Viva-Voce examination held on 27.05.2025

**Internal Examiner**

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# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## EE3811- PROJECT WORK

| S.No. | Register Number | Name of the Student | Guide Name | Signature of Guide |
|---|---|---|---|---|
| **BATCH-I** | | | | |
| 1 | 422121105002 | **ADHIRAI V** | **MR.J.RAMESH** | |
| 2 | 422121105006 | ASRAF ALI A | | |
| 3 | 422121105018 | JAGANATHAN S | | |
| 4 | 422121105311 | VINOTH M | | |
| **BATCH-II** | | | | |
| 1 | 422121105020 | **JEGATHESWARI A** | **Dr.V. YOGAMBARI** | |
| 2 | 422121105035 | SOWMIYA S | | |
| 3 | 422121105021 | MICHEAL AASIC B | | |
| 4 | 422121105013 | ELUMALAI G | | |
| **BATCH-III** | | | | |
| 1 | 422121105306 | **MEGHARJUN S** | **Mr.A.SUNDARA PANDIYAN** | |
| 2 | 422121105033 | SIVABALAN B L | | |
| 3 | 422121105310 | UMAR BIN HUSSAIN M | | |
| **BATCH-IV** | | | | |
| 1 | 422121105004 | AKASH A | **Mr.A.SUNDARA PANDIYAN** | |
| 2 | 422121105017 | HARIHARAN V | | |
| 3 | 422121105022 | **MOHANRAJ K** | | |
| 4 | 422121105308 | NIJANTH KUMAR D | | |
| **BATCH-V** | | | | |
| 1 | 422121105009 | **DENIS S** | **Mr.V.BALAJI** | |
| 2 | 422121105011 | DISHAN M | | |
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| **BATCH-VI** | | | | |
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| 2 | 422121105028 | PREMKUMAR S | | |
| 3 | 422121105039 | SURESHKUMAR S | | |
| 4 | 422121105042 | VISHNUCHANDIRAN T | | |

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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| 3 | 422121105025 | PRAVEEN K | | |
| 4 | 422121105305 | MANIVASAGAN M | | |
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| 3 | 422121105036 | **SRIDHAR B** | | |
| 4 | 422121105037 | SUBASH B | | |
| **BATCH-IX** | | | | |
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## EE3811- PROJECT WORK

| S.No | Batch No | PROJECT TITLE |
|---|---|---|
| 1. | BATCH -I | SMART LIGHTNING ARRESTER WITH ENERGY HARVESTING AND EARLY WARNING SYSTEM FOR ENHANCED SAFETY IN FIREWORK INDUSTRY |
| 2. | BATCH -II | SMART ENERGY HARVESTING SYSTEM USING EMI & THERMAL ENERGY FROM TRANSMISSION LINES WITH IOT MONITORING |
| 3. | BATCH -III | Smart Enhancement of electric V2V Communication system using IoT in ITS |
| 4. | BATCH-IV | Integrated charging system ELECTRIC VECHICLE |
| 5. | BATCH-V | Driving - charging Integrated Controller For Electric Vehicles. |
| 6 | BATCH-VI | Grey Wolf Optimization Algorithm based Economic Dispatch |
| 7 | BATCH-VII | OPTIMAL RECONFIGURATION OF DISTRIBUTION NETWORK CONSIDERING LOAD VARIATION USING CHAMELEON SWARM OPTIMIZATION ALGORITHM |
| 8 | BATCH-VIII | MINIMIZATION OF TRANSMISSION LOSSES USING FACTS DEVICES USRING IMPROVED WHALE ALGORITHM. |
| 9 | BATCH-IX | SOLAR ION PROPOLSION HARNESSING ELECTRIC FIELD FOR DEEP SPACE TRAVEL |
| 10 | BATCH-X | Multi - Objective Planning Model of wind solar PV - Battery Storage - Based DERs in Smart Grid Distribution System |
| 11 | BATCH-XI | OPTIMAL ALLOCATION OF EV CHARGING STATIONS IN DISTRIBUTION NETWORKS. |
| 12 | BATCH-XII | optimal Power Flow of Power System with Locational Marginal Price Using Brown Bear Optimization |

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# SMART LIGHTNING ARRESTER WITH ENERGY HARVESTING AND EARLY WARNING SYSTEM FOR ENHANCED SAFETY IN FIREWORK INDUSTRY

A PROJECT REPORT

*Submitted by*


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MAY 2025

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## BONAFIDE CERTIFICATE

Certified that this project report "**SMART LIGHTNING ARRESTER WITH ENERGY HARVESTING AND EARLY WARNING SYSTEM FOR ENHANCED SAFETY IN FIREWORK INDUSTRY**" is the bonafide work of " **ADHIRAI. V, ASRAF ALI. A, JEGANATHAN. S, VINOTH. M** " who carried out the project work under my supervision.

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Submitted for the university examination held on 30.05.2025/FN

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

# SMART ENERGY HARVESTING SYSTEM USING EMI AND THERMAL ENERGY FROM TRANSMISSION LINES WITH IoT MONITORING

A PROJECT REPORT

*Submitted by*


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Submitted for the university examination held on 30/05/2025

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

# SMART ENHANCEMENT OF ELECTRIC V2V COMMUNICATION SYSTEM USING IOT IN ITS

A PROJECT REPORT

*Submitted by*


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ANNA UNIVERSITY::CHENNAI 600 025

MAY 2025

## BONAFIDE CERTIFICATE

**Certified that this project report "SMART ENHANCEMENT OF ELECTRIC V2V COMMUNICATION SYSTEM USING IOT IN ITS" is the bonafide work of SIVABALAN B.L (422121105033), MEGHARJUN S (422121105306), UMAR BIN HUSSAIN M (422121105310) who carried out the project work under my supervision.**

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Submitted for the Project Viva-Voce examination held on 30/05/2025.

**Internal Examiner**

**External Examiner**

# INTEGRATED CHARGING SYSTEM FOR ELECTRIC VEHICLES

A PROJECT REPORT

*Submitted by*


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MAY 2025

# ANNA UNIVERSITY : CHENNAI 600 025

## BONAFIDE CERTIFICATE

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Submitted for the university examination held on 30-5-25

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

# DRIVING – CHARGING INTEGRATED CONTROLLER FOR ELECTRIC VEHICLES

A PROJECT REPORT

*Submitted by*


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MAY 2025

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## BONAFIDE CERTIFICATE

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30/5/25

**INTERNAL EXAMINER**

30/5/25

**EXTERNAL EXAMINER**

# GREY WOLF OPTIMIZATION ALGORITHM BASED ECONOMIC DISPATCH

A PROJECT REPORT

*Submitted by*


| | |
|---|---|
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MAY 2025

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## BONAFIDE CERTIFICATE

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**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

# OPTIMAL RECONFIGURATION OF DISTRIBUTION NETWORK CONSIDERING LOAD VARIATION USING CHAMELEON SWARM OPTIMIZATION ALGORITHM

A PROJECT REPORT

*Submitted by*


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MAY 2025

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30/5/25

**INTERNAL EXAMINER**

30/5/25

**EXTERNAL EXAMINER**

# MINIMIZATION OF TRANSMISSION LOSS USING FACTS DEVICES USING IMPROVED WHALE ALGORITHM

A PROJECT REPORT

*Submitted by*


| | |
|---|---|
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ANNA UNIVERSITY :: CHENNAI 600 025


MAY 2025

# ANNA UNIVERSITY : CHENNAI 600 025

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INTERNAL EXAMINER

EXTERNAL EXAMINER

# SOLAR ION PROPULSION HARNESSING ELECTRIC FIELD FOR DEEP SPACE TRAVEL

A PROJECT REPORT

*Submitted by*


| | |
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| PRAVEEN KUMAR R | 422121105309 |


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ANNA UNIVERSITY::CHENNAI 600 025


MAY 2025

# ANNA UNIVERSITY::CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report **"SOLAR ION PROPULSION HARNESSING ELECTRIC FIELD FOR DEEP SPACE TRAVEL"** is the bonafide work of **RAGURAMAN S (422121105029), DHIVAKAR M (422121105304), PRAVEEN KUMAR R (422121105309)** who carried out the project work under my supervision.

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**Mrs.T.ARTHI, M.E,**
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and Technology, Panruti.

Submitted for the Project Viva-Voce examination held on 30/05/2025

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

# MULTI OBJECTIVE PLANNING MODEL OF SOLAR PV, WIND AND BATTERY STORAGE BASED DERS IN SMART GRID DISTRIBUTION SYSTEM

A PROJECT REPORT

*Submitted by*


| | |
|---|---|
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| PRAVEEN N | 422121105026 |
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ANNA UNIVERSITY :: CHENNAI 600 025

MAY 2025

## BONAFIDE CERTIFICATE

Certified that this project report " **MULTI OBJECTIVE PLANNING MODEL OF SOLAR PV, WIND AND BATTERY STORAGE BASED DERS IN SMART GRID DISTRIBUTION SYSTEM**" is the bonafide work of "S BALAMUGURAN, N. PRAVEEN, T. SUMAN RAJ, M. I MOHAMED IRFAN" who carried out the project work under my supervision.

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Submitted for the university examination held on 30/05/25

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

# OPTIMAL ALLOCATION OF ELECTRIC VEHICLE CHARGING STATIONS IN DISTRIBUTION NETWORKS

A PROJECT REPORT

*Submitted by*


| | |
|---|---|
| CHITHIRAISELVAN S | 422121105008 |
| SIVARAJ K | 422121105034 |
| AGASH A | 422121105301 |


*in partial fulfillment for the award of the degree*

*of*

BACHELOR OF ENGINEERING

*in*

ELECTRICAL AND ELECTRONICS ENGINEERING


ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

ANNA UNIVERSITY :: CHENNAI 600 025


MAY 2025


ANNA UNIVERSITY : CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report **"OPTIMAL ALLOCATION OF ELECTRIC VEHICLE CHARGING STATIONS AND DISTRIBUTED GENERATION IN RADIAL DISTRIBUTION NETWORKS"** is the bonafide work of **"S. CHITHIRAISELVAN, K. SIVARAJ, A. AGASH"** who carried out the project work under my supervision.

29/5/25

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V. Balaji

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Submitted for the university examination held on 30/05/2025

30/5/25

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

# OPTIMAL POWER FLOW OF POWER SYSTEM WITH LOCATION MARGINAL PRICE USING BROWN BEAR OPTIMISATION

A PROJECT REPORT

*Submitted by*


| | |
|---|---|
| ELAVARASAN E | 422121105010 |
| DHANUSH D | 422121105012 |
| GNANARAJ S | 422121105015 |
| SANTHOSH P | 422121105030 |


*in partial fulfillment for the award of the degree*

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ELECTRICAL AND ELECTRONICS ENGINEERING


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ANNA UNIVERSITY :: CHENNAI 600 025


MAY 2025

# ANNA UNIVERSITY : CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report **" OPTIMAL POWER FLOW OF POWER SYSTEM WITH LOCATION MARGINAL PRICE USING BROWN BEAR OPTIMISATION"** is the bonafide work of **"E. ELAVARASAN, D. DHANUSH, S. GNANARAJ, P . SANTHOSH"** who carried out the project work under my supervision.

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**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
Accredited by NAAC
ANGUCHETTYPALAYAM, PANRUTI -607 106.

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## PROJECT BATCH LIST

**PERIOD:** 2025 FEB - MAY 2025 **BATCH:** 2021-2025 **YEAR/ SEMESTER:** IV / VIII

| Batch. No. | REGISTER NO. | NAME | PROJECT TITLE | FACULTY NAME |
|---|---|---|---|---|
| 1 | 422121106013 | Duraimurugan A | Public Toilet Maintenance Using IoT | Mrs. D. UMAMAHESWARI, ASP/ECE |
| | 422121106015 | Immanvel T | | |
| | 422121106017 | Karthikeyan U | | |
| | 422121106034 | Srihari K | | |
| 2 | 422121106007 | Ashwin A | THAWF SENSE: Artificial Intelligence for Poultry Management System | Mr. S. BALABASKER, ASP/ECE |
| | 422121106026 | Ragunath A | | |
| | 422121106029 | Sanjai S | | |
| | 422121106036 | Suriya R | | |
| 3 | 422121106014 | Gopinath V | Smart Crop Protection and alert for Detecting Wild Animals | Mr. R. RADHAKRISHNAN, AP/ECE |
| | 422121106016 | Inbaraj D | | |
| | 422121106035 | Surendhar A | | |
| 4 | 422121106005 | Archana A | Automated Irrigation System for Paddy Utilizing Sensors | Mrs. B. MARY AMALA JENNI, AP/ECE |
| | 422121106011 | Dhivya A | | |
| | 422121106023 | Prithisha E | | |
| | 422121106020 | Mohan J | | |
| 5 | 422121106008 | Balaguru P | Smart Vegetable Price Monitoring: Data collection, Analysis, Visualization and Insights for Farmers | Mr.V. VENKATESAN, AP/ECE |
| | 422121106031 | Selvakumar S | | |
| | 422121106030 | Sathishkumar P | | |
| 6 | 422121106037 | Vaishali S | GPS Tracking System for Government Bus | Mr. S. DURAI RAJ, AP/ECE |
| | 422121106009 | Deepika K | | |
| | 422121106003 | Anitha R | | |
| 7 | 422121106039 | Viswanath N | Automated and Decentralized Cloud Based Water Level and Quality Audit System Using IoT | Mr. B. ARUNKUMAR, AP/ECE |
| | 422121106019 | Mangaleshwar U | | |
| | 422121106027 | Rajamohan P | | |
| 8 | 422121106001 | Abi E | IoT and ML-Based Fire Accident Prevention System for Electric Vehicles Using Super Capacitors and Thermo Gel Cooling | Mrs. A. SAMADHANA PRIYA, AP/ECE |
| | 422121106021 | Mohana P | | |
| | 422121106032 | Senthamizhnila V | | |

**PROJECT CO-ORDINATOR** **HoD** **PRINCIPAL**

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# PUBLIC TOILET MAINTANANCE USING IOT

A PROJECT REPORT

*Submitted by*


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IMMANVEL . T (422121106015)

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ELECTRONICS AND COMMUNICATION ENGINEERING


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ANNA UNIVERSITY: CHENNAI 600 025

MAY 2025

# PUBLIC TOILET MAINTANANCE USING IOT

A PROJECT REPORT

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ANNA UNIVERSITY: CHENNAI 600 025

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**ANNA UNIVERSITY: CHENNAI 600 025**
**BONAFIDE CERTIFICATE**

**Certified that this project report "PUBLIC TOILET MAINTANANCE USING IOT" is the Bonafide work of A.DURAIMURUGAN (422121106013),T.IMMANVEL (422121106015), U.KARTHIKEYAN (422121106017), K.SRIHARI (422121106034)" who carried out the project work under my supervision.**

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**INTERNAL EXAMINER**

28/5/25

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# THAWF SENSE: Artificial Intelligence for Poultry Management System

A PROJECT REPORT

*Submitted by*


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| **SANJAI S** | **422121106029** |
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# AUTOMATED IRRIGATION SYSTEM FOR PADDY UTILIZING SENSORS

**A PROJECT REPORT**

*Submitted by*


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**ANNA UNIVERSITY: CHENNAI 600 025**

**MAY 2025**

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# SMART VEGETABLE PRICE MONITORING : DATA COLLECTION, ANALYSIS, VISUALIZATION AND INSIGHTS FOR FARMERS

**A PROJECT REPORT**

***Submitted by***


**BALAGURU. P** **422121106008**

**SELVAKUMAR. S** **422121106031**

**SATHISHKUMAR. P** **422121106030**


***in partial fulfilment for the award of the degree of***

**BACHELOR OF ENGINEERING**

***in***

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**ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY**



**ANNA UNIVERSITY: CHENNAI 600 025**

**MAY 2025**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "SMART VEGETABLE PRICE MONITORING : DATA COLLECTION , ANALYSIS, VISUALIZATION AND INSIGHTS FOR FARMERS" is the bonafide work of "BALAGURU. P(422121106008), SELVAKUMAR . S(422121106031), SATHISHKUMAR .P(422121106030)" who carried out the project work under my supervision.

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# GPS TRACKING SYSTEM FOR GOVERNMENT BUS

**A PROJECT REPORT**

***Submitted by***


| | |
|---|---|
| **VAISHALI.S** | **422121106037** |
| **DEEPIKA.K** | **422121106009** |
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Certified that this project report **"GPS TRACKING SYSTEM FOR GOVERNMENT BUS"** is the bonafide work of **"VAISHALI.S (422121106037), DEEPIKA.K(422121106009),ANITHA.R (422121106003)"** who carried out the project work under my supervision.

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# AUTOMATED AND DECENTRALIZED CLOUD BASED WATER LEVEL AND QUALITY AUDIT SYSTEM USING IOT

**A PROJECT REPORT**

***Submitted by***


**VISWANATH. N (422121106039)**

**MANGALESHWAR. U (422121106019)**

**RAJAMOHAN. P (422121106027)**


***In partial fulfilment for the award of the degree of***

**BACHELOR OF ENGINEERING**

***In***

**ELECTRONICS AND COMMUNICATION ENGINEERING**


**ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY**



**ANNA UNIVERSITY: CHENNAI 600 025**

**MAY 2025**

**ANNA UNIVERSITY: CHENNAI 600 025**
**BONAFIDE CERTIFICATE**

Certified that this project report "AUTOMATED AND DECENTRALIZED CLOUD BASED WATER LEVEL AND QUALITY AUDIT SYSTEM USING IOT" is the Bonafide work of **"N.VISWANATH (422121106039), U.MANGALESHWAR (422121106019), P.RAJAMOHAN (422121106027),"** who carried out the project work under my supervision.

27/5/25

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**Internal Examiner**

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**External Examiner**

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# IOT AND ML - BASED FIRE ACCIDENT PREVENTION SYSTEM FOR ELECTRIC VEHICLES USING SUPER CAPACITORS AND THERMO GEL COOLING

**A PROJECT REPORT**

***Submitted by***


| | |
|---|---|
| **ABI. E** | **422121106001** |
| **MOHANA. P** | **422121106021** |
| **SENTHAMIZH NILA. V** | **422121106032** |


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**BACHELOR OF ENGINEERING**

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**ANNA UNIVERSITY :: CHENNAI 600 025**

**MAY 2025**

# ANNA UNIVERSITY : CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report **"IOT AND ML-BASED FIRE ACCIDENT PREVENTION SYSTEM FOR ELECTRIC VEHICLES USING SUPERCAPACITORS AND THERMO GEL COOLING"** is the bona fide work of **" ABI.E (422121106001 ), MOHANA. P ( 422121106021 ), SENTHAMIZH NILA. V ( 422121106032 ) "** who carried out the project work under my supervision.

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28/5/25

**EXTERNAL EXAMINER**

# SMARTCROP PROTECTION AND ALERT SYSTEM FOR DETECTING WILD ANIMALS

**A PROJECT REPORT**

*Submitted by*


**GOPINATH.V (422121106014)**

**INBARAJ .D (422121106016)**

**SURENDHAR .A (422121106035)**


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**ANNA UNIVERSITY: CHENNAI 600 025**

**MAY 2025**

# ANNA UNIVERSITY: CHENNAI 600 025

## BONAFIDE CERTIFICATE

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28/5
INTERNAL EXAMINER

28/5/25
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# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
Accredited by NAAC
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

## DEPARTMENT OF MECHANICAL ENGINEERING

## PROJECT BATCH LIST

**PERIOD:** FEB – JUNE 2025 **BATCH:** 2021-2025 **YEAR/ SEMESTER:** IV / VIII

| S. No. | REGISTER NO. | NAME | NAME OF THE GUIDE | TITLE OF THE PROJECT |
|---|---|---|---|---|
| 1 | 422121114005 | Bharath P | Dr.K.ShanmugaElango | Surface behavoiour of AA using WS2/Cu powder Metallurgical electrode by ED coating. |
| | 422121114022 | Velpandiyan D | | |
| | 422121114024 | Vishwa R | | |
| 2 | 422121114001 | Adhavan R | Dr.D. Ommurugadhsan | Automated effective Solar Tracking System with Mirror |
| | 422121114011 | Kaviarasan K | | |
| | 422121114015 | Panjamoorthy S | | |
| | 422121114018 | Rajesh A | | |
| 3 | 422121114002 | Agazhian M | Dr. R.Sasikumar | Design and implementation of solar and wind powered Hybrid vehicles. |
| | 422121114003 | Ahamed Ashif S | | |
| | 422121114016 | Prem Kumar G | | |
| 4 | 422121114010 | Karthikeyan T | Mr.P.Murugan | Machinacbility behavior of AA7075 Aluminum alloy processed using EDC with pure aluminum electrode a parametric study |
| | 422121114014 | Nagalingam K | | |
| | 422121114020 | Tony Fidel Synthia V | | |
| | 422121114021 | Veerapandi T | | |
| 5 | 422121114006 | Desigan R | Mr. K. Saravanan | Examine the mechanical properties and immersion corrosion Behavior of Aluminium 8011 Hybrid Nano Composite |
| | 422121114009 | Igno Crossly M | | |
| | 422121114302 | Kathiravan M | | |
| 6 | 422121114008 | Dhivakar T | MrT.Elangovan | Experimental investigation of EDC of AA7075 Aluminum alloy with conventional copper electrode using RSM approach. |
| | 422121114012 | Kaviprasath M | | |
| | 422121114023 | Vishnu Raj T | | |

**PREPARED BY**

**VERIFIED BY**

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# SURFACE BEHAVIOUR OF AA7075 USING $WS_2$/Cu POWDER METALLURGICAL ELECTRODE BY ELECTRO DISCHARGE COATING

A PROJECT REPORT

*Submitted by*


| | |
|---|---|
| BHARATH. P | 422121114005 |
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| VISHWA.R | 422121114024 |


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*In*

MECHANICAL ENGINEERING


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PANRUTI - 607106





ANNA UNIVERSITY: CHENNAI 600 025

MAY 2025

# ANNA UNIVERSITY: CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report "**SURFACE BEHAVIOUR OF AA7075 USING $WS_2$/Cu POWDER METALLURGICAL ELECTRODE BY ELECTRO DISCHARGE COATING**"is the Bonafide work of **"BHARATH.P (422121114005) VELPANDIYAN.D (422121114022) VISHWA.R (422121114024)"**who carried out the project work under my supervision.

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Panruti – 607106

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**Dr.K.Shanmuga Elango, M.Tech., Ph.D.,**
**HEAD OF THE DEPARTMENT**
Assistant Professor
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Anguchettypalayam
Panruti – 607106

Submitted to the Project Report Viva voce held on 28/05/2025

**Internal Examiner**

**External Examiner** 28/5/25

# AUTOMATED EFFECTIVE SOLAR TRACKING SYSTEM WITH MIRROR

A PROJECT REPORT

*Submitted by*


| | |
|---|---|
| ADHAVAN. R | (422121114001) |
| KAVIARASAN.K | (422121114011) |
| PANJAMOORTHI.S | (422121114015) |
| RAJESH .A | (422121114018) |


*In partial fulfillment for the award of the degree*

*Of*

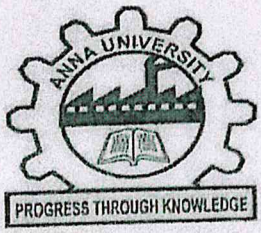
BACHELOR OF ENGINEERING

*In*

MECHANICAL ENGINEERING


ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI - 607106


ANNA UNIVERSITY: CHENNAI 600 025

MAY 2025

# ANNA UNIVERSITY: CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report **"AUTOMATED EFFECTIVE SOLAR TRACKING SYSTEM WITH MIRROR"** is the Bonafide work of **"ADHAVAN.R (422121114001) KAVIARASAN.K (422121114011) PANJAMOORTHI.S (422121114015) RAJESH.A (422121114018)"** who carried out the project work under my supervision.


**SIGNATURE**

**Dr.K.ShanmugaElango, MTech., Ph.D**

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Submitted to the Project Report Viva voce held on 28.5.2025

**Internal Examiner**

**External Examiner**

# DESIGN AND IMPLEMENTATION OF SOLAR AND WIND POWERED HYBRID VEHICLES

A PROJECT REPORT

*Submitted by*


AGAZHIYAN.M (422121114002)

AHAMED ASHIF.S (422121114003)

PREM KUMAR.G (422121114016)


*In partial fulfillment for the award of the degree*

*Of*

BACHELOR OF ENGINEERING

*In*

MECHANICAL ENGINEERING


ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY






ANNA UNIVERSITY: CHENNAI 600 025

MAY 2025

# ANNA UNIVERSITY: CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report **"DESIGN AND IMPLEMENTATION OF SOLAR AND WIND POWERED HYBRID VEHICLE"** is the Bonafide work of **"AGAZHIYAN.M (422121114002) AHAMED ASHIF.S (422121114003) PREMKUMAR.G (422121114016)"** who carried out the project work under my supervision.

**SIGNATURE**

**Dr.K. Shanmuga Elango, M.Tech., Ph.D.,**

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Panruti – 607106

**Submitted for the ANNA UNIVERSITY examination held on** 28.05.2025

**Internal Examiner**

**External Examiner**

# MACHINABILITY BEHAVIOR OF AA7075 ALUMINIUM ALLOY PROCESSED USING ELECTRICAL DISCHARGE MACHINING WITH PURE ALUMINUM ELECTRODE: A PARAMETRIC STUDY

**A PROJECT REPORT**

*Submitted by*


| | |
|---|---|
| KARTHIKEYAN. T | (422121114010) |
| NAGALINGAM.K | (422121114014) |
| TONY FIDEL SYNTHIA .V | (422121114020) |
| VEERAPANDI .T | (422121114021) |


*In partial fulfillment for the award of the degree*

*Of*

**BACHELOR OF ENGINEERING**

*In*

**MECHANICAL ENGINEERING**


**ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY**

**PANRUTI – 607106**





**ANNA UNIVERSITY: CHENNAI 600 025**

**MAY 2025**

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICAT

Certified that this project report " **MICROSTRUCTURE AND MICRO HARDNESS ANALYSIS OF ALUMINIUM (AA7075) UNDER NEGATIVE POLARITY & BIO DIE ELECTRIC FLUID BY DIE SINKING ELECTRO DISCHARGE MACHINING (EDM)** " is the Bonafide work of **"KARTHIKEYAN .T (422121114010) NAGALINGAM.K (422121114014) TONY FIDE SYNTHIA .V(422121114020) VEERAPANDI (422121114021)"** who carried out the project work under my supervision.

for P. 28/5/25

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P.

**SIGNATURE**

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Panruti – 607106

**Submitted for the ANNA UNIVERSITY examination held on** 28.05.25

**Internal Examiner**

**External Examiner** 29/5/25

# EXAMINE THE MECHANICAL PROPERTIES AND IMMERSION CORROSION BEHAVIOR OF ALUMINUM 8011 HYBRID NANOCOMPOSITE

A PROJECT REPORT

*Submitted by*


DESIGAN.R (422121114006)

IGNO CROSSLY.M (422121114009)

KATHIRAVAN.M (422121114302)


*In partial fulfillment for the award degree*

*of*

BACHELOR OF ENGINEERING

*In*

MECHANICAL ENGINEERING


ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY






ANNA UNIVERSITY: CHENNAI 600 025

MAY 2025

# ANNA UNIVERSITY: CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report **"EXAMINE THE MECHANICAL PROPERTIES AND IMMERSION CORROSION BEHAVIOR OF ALUMINUM 8011 HYBRID NANOCOMPOSITE"** is the Bonafide work of **"DESIGAN.R (422121114006) IGNO CROSSLY.M (422121114009) KATHIRAVAN.M (422121114302)"** who carried out the project work under my supervision.

**SIGNATURE**

**Dr.K.Shanmuga Elango, M.Tech., Ph.D.,**
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**Mr. K. Saravanan, M.E.,(Ph.D).,**
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Anguchettypalayam
Panruti – 607106

**Submitted for the ANNA UNIVERSITY examination held on** 28.05.2025

**Internal Examiner**

**External Examiner**

# EXPERIMENTAL INVESTIGATION ON ELECTRICAL DISCHARGE MACHINING OF AA7075 ALUMINIUM ALLOY WITH CONVENTIONAL COPPER ELECTRODE USING RESPONSE SURFACE METHODOLOGY APPROACH

**A PROJECT REPORT**

*Submitted by*


**DHIVAKAR .T** (422121114008)

**KAVIPRASATH .M** (422121114012)

**VISHNURAJ .T** (422121114023)


*Inpartial fulfillment for the award degree*

*of*

**BACHELOR OF ENGINEERING**

*In*

**MECHANICAL ENGINEERING**


**ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY**

**PANRUTI - 607106**






**ANNA UNIVERSITY: CHENNAI 600 025**

**MAY 2025**

# ANNA UNIVERSITY: CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report "**EXPERIMENTAL INVESTIGATION ON ELECTRICAL DISCHARGE MACHINING OF AA7075 ALUMINIUM ALLOY WITH CONVENTIONAL COPPER ELECTRODE USING RESPONSE SURFACE METHODOLOGY APPROACH**" is the Bonafide work of"**DHIVAKAR.T(422121114008),KAVIPRASATH.M (422121114012), VISHNURAJ (422121114023)**" who carried out the project work under my supervision.

**SIGNATURE**

**Dr. K.SHANMUELANGO, M.Tech., Ph.D**

**HEAD OF THE DEPARTMENT**

Associate Professor

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Anguchettypalayam

Panruti – 607106

**SIGNATURE**

**Mr.T.ELANGOVAN, ME.,**

Assistant Professor

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Anguchettypalayam

Panruti – 607106

**Submitted for the ANNA UNIVERSITY examination held on** 28.5.2025

**Internal Examiner**

**External Examiner**

**ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY**
Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai
Accredited by NAAC
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

# IDEA CONTEST

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC)

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Anguchettypalayam, Panruti - 607 106.

StartupTN

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

*ORGANIZES*

A National Level Innovative Idea Competition

# IDEA MAKERS - 2.0

The MEGA Hunt for the Best Idea Begins!

07.11.2024

**HAVE AN IDEA?**

**HAVE A TEAM?**

**WANT TO PROMOTE YOUR ENTREPRENEURIAL SKILS?**

REGISTER NOW




Registration Starts on 15.10.2024

Selection Intimation & Confirmation 04.11.2024

Last Date of Idea Submission 02.11.2024

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SUSTAINABLE DEVELOPMENT GOALS

ARMOR SHIELD

eDiY LaBs
MAD ABOUT INNOVATION

VEI

eazythings

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

**STAFF COORDINATORS**

Prof. D. Umamaheswari - +91-9942653478

Prof. S. Balabasker - +91-9944374993

**STUDENT COORDINATORS**

N. Viswanath - +91-9361131203

S. Vaishali - +91-7538815277

**FOR DETAILS & REGISTRATION VISIT**

https://stannescet.ac.in/event/ideamakers/

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai
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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## IDEAMAKERS 2.0

**07th November 2024**

## INAUGURATION

**AGENDA**

- **Prayer Song**
- **Bible Reading**
- **Thamizhthai Vazhthu**
- **Welcome Address & Honoring**
- **Felicitation (Principal)**
- **Presidential Address (Secretary)**
- **Chief Guest Introduction**
- **Keynote Address**
- **Inaugural Address (Chief Guest)**
- **Vote of Thanks**

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## IDEAMAKERS 2.0

**07th November 2024**

## VALEDICTORY

**AGENDA**

- **Prayer Song**
- **Welcome Address**
- **Chief Guest Introduction**
- **Valedictory Address**
- **Certificate Distribution**
- **Prize Distribution to Winners**
- **National Anthem**

# ST. ANNE'S

## College of Engineering & Technology

Approved by AICTE, Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC
Anguchettypalayam, Panruti - 607106

## Department of Electronics and Communication Engineering

*in association with*

# StartupTN

Cordially invite you to the Valediction of

# IDEAMAKERS - 2.0

**on 7th November 2024, at 3.30 PM**

*Mr. S.Vibith*
*Project Associate*
*StartupTN Cuddalore Regional Hub*
*&*
*Dr.R. Dayana*
*Associate Professor, Department of ECE,*
*SRM Institute of Science and Technology, Kattankulathur, Chennai.*
**has graciously consented to deliver Valedictory address.**

*Rev. Sr. Dr. B. J. Queensly Jeyanthi, SAT*
*Secretary, St. Anne's College of Engineering and Technology*
**will preside over the function.**

*Dr. R. Arokiadass*
*Principal, St. Anne's College of Engineering and Technology*
**will felicitate the gathering.**

St. Anne's CET (ECE Department) <ece@stannescet.ac.in>

# Invitation to Serve as Jury at IDEA MAKERS-2.0

**St. Anne's CET (ECE Department)** <ece@stannescet.ac.in> Mon, Nov 4, 2024 at 8:20 PM
To: saranya.j@rajalakshmi.edu.in

Dear **Dr. J. SARANYA, Associate Professor, Rajalakshmi Engineering College, Chennai**,

I hope this email finds you in good health and high spirits. On behalf of the Department of Electronics and Communication Engineering, St. Anne's College of Engineering and Technology, Panruti, I am delighted to extend our warmest greetings to you.

We are thrilled to invite you to our upcoming event **IDEAMAKERS-2.0** on **November 7, 2024**, We believe your extensive experience makes you the perfect candidate to serve as a **Jury** for this event.

At St. Anne's College of Engineering and Technology, we are committed to fostering an environment that encourages innovation and entrepreneurship among our students. Your presence and words of wisdom would undoubtedly inspire and guide our aspiring engineers and future entrepreneurs. Your experiences and expertise in this field would be invaluable to them as they embark on their professional journeys.

Once again, we extend our heartfelt invitation to you and hope you will accept our request to be our Jury. Your presence will make our event a resounding success.

Thank you for considering our invitation, and we look forward to your positive response.

Warm regards,
**IDEAMAKERS-2.0 Team,**
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology,
Panruti

St. Anne's CET (ECE Department) <ece@stannescet.ac.in>

# Invitation to Serve as Jury at IDEA MAKERS-2.0

**Dr. Saranya J** <saranya.j@rajalakshmi.edu.in> Mon, Nov 4, 2024 at 9:47 PM
To: "St. Anne's CET (ECE Department)" <ece@stannescet.ac.in>

I accept the invitation.
[Quoted text hidden]

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai
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ANGUCHETTYPALAYAM, PANRUTI – 607 106

StartupTN

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## NATIONAL LEVEL IDEA COMPETITION

## "IDEAMAKERS – 2.0"

## REGISTRATION FORM

| BATCH NO. | TEAM ID | COLLEGE NAME | TEAM MEMBERS | TITLE | SIGNATURE |
|---|---|---|---|---|---|
| 1. | 5072 | KASTURBA GANDHI NURSING COLLEGE, SBV (DEEMED TO BE UNIVERSITY), PUDUCHERRY. | Mr. VIJAY R<br>Dr. PUNITHA JOSEPHINE. | DISPOSABLE INFECTION FREE HEMOSTATIC TOURNIQUET (DIFHT) FOR ATTAINING HEMOSTASIS AMONG HEMODIALYSIS PT'S AT DECANNULATED SITE | R. Vijay 07/11/2024. |
| 2. | 5011 | ST. ANNES COLLEGE OF ENGINEERING AND TECHNOLOGY | B. DEVI SRI<br>V. BAIRAVI<br>R. DIVYA | HOW TO TURN WASTE INTO ELECTRICITY | Devi Sri. B |
| 3. | 5055 | IFET COLLEGE OF ENGINEERING, VILLUPURAM | SURIYAPRAKASH. PK<br>SUBASRI. JD | TECTOSEISMOAI GUARD: INTEGRATED PLATE TECHNICS AND SEISMIC RISK MANAGEMENT SYSTEM | |

| | | | | | |
|---|---|---|---|---|---|
| 4. | 5058 | IFET COLLEGE OF ENGINEERING, VILLUPURAM | AMEER KHAN. K<br>JEYHASRI. D | SECURESHE - SMARTINTELLI - PROTECT DEVICE WITH REALTIME THREAT DETECTION | K. Ameerkhan |
| 5. | ~~5075~~ | CK COLLEGE OF ENGINEERING AND TECHNOLOGY CUDDALORE | SOORIYA RAJAN. P<br>NISHANTH. R. | AUTONOMOUS WATER SURFACE CLEANING Robot. | R. Nisanth |
| 6. | | CK College of Engineering And Technology cuddalore. | Vishnupriya. C<br>Srimathi. J | SMART EV CHARGER. | C. Vishnupriya. |
| 7. | | CK COLLEGE OF ENGINEERING AND TECHNOLOGY | Ajitha. S<br>Swathi. K | TEACHING BOT | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4. | 5034 | St. Anne's College of Engineering and Technology Panruti | V. Pavithra<br>K. Pratheeba<br>S. Thirumalaivasan<br>P. Parasuraman | Smart lighting system | K. Pratheeba | |
| 5. ✓ | | St. Anne's College of Engineering and Technology Panruti | P. Praveena<br>S. Abinaya | Iconic thruster | P. [illegible] | d |
| 6. ✓ | | St. Anne's College of Engineering & Technology Panruti. | Manibarathi. P<br>~~Muthazagan. N~~<br>Muthazhagan. N | Carbon Capture and Storage | [illegible] P | on Spot Paid |
| 7. | 5068 | St. Anne's College of Engineering & Tech. Panruti. | Suresh. S<br>Devaguru S.<br>Aravindh. E | Agro water Path<br>Inform system | S. [illegible] | |

| | | | | | |
|---|---|---|---|---|---|
| 8. | | C.K college of Engineering and technology | B. Sindhuja<br>A. Swathi | Women Safety | B. Bindja |
| 9. | 5080. | K S Rangasamy College of Technology | K. Thilak<br>J. S. Vishva Kasi<br>P. Sanjaydharan<br>R. Santhosh | Mind Maple | |
| 10. | 5011 | ~~K. Peer Mohammed~~ Khan<br>Annai velankanni polytechnic colleg | K. PEER MOHAMMED KHAN | A.I Enhanced fraud detection application | |
| 11. | 504. | S.T. Annes clg of Engg and Tech | S. Varthika<br>V. Sweety Porcia<br>K. Sri Ranjani<br>K. Siva Ranjani | ~~S.T. Annes C~~<br>IOT in Medical Field | |

| | | | | | |
|---|---|---|---|---|---|
| 16. | 5062 | University College of Engineering, Villupuram | K. Diryadharshini<br>G. Priyadarshini | Eco-friendly Tractor operations | K. Diryad |
| 17. | 50115<br>~~5045~~ | University College of Engineering, Villupuram | A. Rajadurai<br>M. Vijayalakshmi | Smart landslide Detection and Early warning System | A. Rajadurai |
| 18. | 5045 | ST. Anne's College of Engineering and Technology | A.K. Noor Samira<br>I. Maheswari<br>R. Mahalakshmi | Wearable Health monitoring device with Alerts | A.K. Noor Samira |
| 19. | 5060 | St. Anne's college of Engineering and Technology | P. Pavithra<br>K. Sathiya<br>M. Janani<br>M. Archana | Automatic lights while violated the Traffic rules | M. Janani |

| | | | | | |
|---|---|---|---|---|---|
| 24. | 5025 | CK college of Engineering and Technology | Kalaiwarsan.V<br>Thirumurugan.K<br>Priyadharshini.R<br>Durga.A | SMART ENERGY AND WATER CONSERVATION | Kalaiwarsan.V |
| 25. | | AKT Memorial colleges of Engineering and Technology. | Balamurugan C<br>Arun M<br>Kalaimani L<br>Rajesh R | Feeding Animals to prevent Road Accident | C. Balu 2 marks paper ② gray to Vishnu. |
| 26. | | AKT Memorial college of Engineering and Technology. | Vithiya.S<br>Nishor.M<br>Karguna rathi.R<br>Saranikar.J | Wireless sensor Network Based controlling and Monitoring of food storange system. | on spot paper. |
| 27. | | | | | |

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## IDEA MAKERS – 2.0

## IDEA PRESENTATION SCHEDULE

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5068 | ST ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY | DEVAGURU S<br>ARAVINDH E<br>SURESH.S | AGRO WATERPATH INFORM SYSTEM | 12.05 PM<br>to<br>12.12 PM |
| 7 | 50111 | ANNAI VELANKANNI POLYTECHNIC COLLEGE | PEER MOHAMMED KHAN K | AI-ENHANCED FRAUD DETECTION FOR SOCIAL MEDIA CONTENT | 12.12 PM<br>to<br>12.19 PM |
| 8 | 5058 | IFET COLLEGE OF ENGINEERING | AMEER KHAN K<br>JEYHASRI D | SECURESHE-SMART INTELLIPROTECT DEVICE WITH REAL-TIME THREAT DETECTION | 12.19 PM<br>to<br>12.26 PM |
| 9 | 5025 | CK COLLEGE OF ENGINEERING AND TECHNOLOGY | KALAIVARSAN.V<br>THIRUMURUGAN K<br>DURGA. A<br>R.PRIYADHARSHINI | SMART ENERGY AND WATER CONSERVATION | 12.26 PM<br>to<br>12.35 PM |
| 10 | 5062 | UNIVERSITY COLLEGE OF ENGINEERING, VILLUPURAM | DIVYADHARSHINI K<br>PRIYADARSHINI.G | ECO FRIENDLY TRACTOR OPERATIONS | 12.35 PM<br>to<br>12.42 PM |
| 11 | 5055 | IFET COLLEGE OF ENGINEERING | SURIYA PRAKASH PK<br>SUBASRI JD | TECTOSEISMOAI GUARD : INTEGRATED PLATE TECTONICS AND SEISMIC RISK MANAGEMENT SYSTEM | 12.42 PM<br>to<br>12.49 PM |
| 12 | 50106 | ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY | M. MOHANBARATH<br>S. M. KAMALINISHA<br>B . JAYASRI<br>E.DHIVYADHARSHINI | INITIAL PADDY WEEDER | 12.49 PM<br>to<br>12.56 PM |

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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StartupTN

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### NATIONAL LEVEL IDEA COMPETITION

## "IDEAMAKERS – 2.0"

### EVALUATION SHEET

**DEPARTMENT:** ECE

**DATE:** 07.11.2024

| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) | |
|---|---|---|---|---|---|---|---|---|---|
| 1. | 5087 | DRIVER DROWSINESS SENTRY SYSTEM | 5 | 4 | 4 | 6 | 4 | 23 | 29 = 52 |
| 2. | 5051 | SMART FALLDOWN DETECTION WATCH | 3 | 3 | 4 | 2 | 3 | 15 | 30 = 45 |
| 3. | | Jute wraps for fashion items | 3 | 2 | 3 | 2 | 4 | 14 | 25 = 39 |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |
| 6. | | CARBON CAPTURE | 7 | 5 | 5 | 8 | 7 | 32 | 37 = 69 |
| 7. | | Feeding animals | 6 | 5 | 4 | 2 | 4 | 21 | 20 = 41 |
| 8. | | SMART EV | 3 | 2 | 2 | 2 | 0 | 9 | 22 = 31 |
| 9. | | IONIC THRUSTER | 5 | 4 | 4 | 5 | 5 | 23 | 18 = 41 |
| 10. | | SMART LASER HOME SEC' IOT | 5 | 3 | 3 | 7 | 2 | 20 | 38 = 58 |
| 11. | | HOME AUTOMATION | 3 | 3 | 3 | 2 | 5 | 16 | 19 = 35 |
| 12. | | Women SAFTY | 7 | 5 | 5 | 9 | 7 | 33 | 23 = 56 |

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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StartupTN

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### NATIONAL LEVEL IDEA COMPETITION

### "IDEAMAKERS – 2.0"

**EVALUATION SHEET**

**DEPARTMENT:** ECE **DATE:** 07.11.2024

| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) | |
|---|---|---|---|---|---|---|---|---|---|
| 1. | 5087 | Drivers Dowsiness Sentry system (KPR Institute) | 5 | 5 | 5 | 7 | 7 | 29 | |
| 2. | | | | | | | | | |
| 3. | 5051 | Smart falldown detection watch | 5 | 5 | 6 | 6 | 7 | 30 | |
| 4. | 5026 | | | | | | | | |
| 5. | | Jute wraps for fashion items | 5 | 5 | 5 | 5 | 5 | 25 | |
| 6. | . | | | | | | | | |
| 7. | .. | Carbon Capture storage | 7 | 7 | 7 | 9 | 7 | 37 | II |
| 8. | | Feeding Animals to Prevent road accident | 4 | 4 | 4 | 4 | 4 | 20 | |
| 9. | | Design and Development of Smart EV charger | 4 | 4 | 5 | 4 | 5 | 22 | |
| 10. | | Ionic Thruster | 4 | 4 | 4 | 3 | 3 | 18 | |
| 11. | | Smart laser Home security system using IOT | 7 | 7 | 7 | 9 | 8 | 38 | I |
| 12. | | Home automation using IoT | 4 | 4 | 4 | 4 | 3 | 19 | |

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI – 607 106

StartupTN

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### NATIONAL LEVEL IDEA COMPETITION

### "IDEAMAKERS – 2.0"

**EVALUATION SHEET**

**DEPARTMENT:** ECE

**DATE:** 07.11.2024

| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) |
|---|---|---|---|---|---|---|---|---|
| 1. | 5072 | Disposable Infection free Hemostatic Tourniquet (DIFT). | 10 | 10 | 10 | 07 | 09 | 46 |
| 2. | 5091 | Early warning sys for GLOFS | 05 | 05 | 06 | 05 | 05 | 26 |
| 3. | 5097 | IoT Driven Railway track monitoring system | 06 | 04 | 04 | 04 | 05 | 23 |
| 4. | 5088 | Real-time Helmet Detection in 2 wheeler | 05 | 07 | 06 | 05 | 07 | 30 |
| 5. | 5082 | Smart Waste Management system | 05 | 06 | 04 | 04 | 06 | 25 |
| 6. | 5080 | Mind maple | 10 | 09 | 09 | 10 | 10 | 48 — I |
| 7. | 5011 | ~~AI-Enhanced Agro-Intelligence for~~ Fraud Detection in Social Media | 09 | 08 | 07 | 09 | 08 | 41 |
| 8. | 5058 | Secure SHE- SMART INTELLI Content PROTECT DEVICE WITH RT-time threat detection. | 07 | 08 | 07 | 08 | 10 | 40 |
| 9. | 5015 | Smart landslide Detection & Early warning sys | 06 | 05 | 05 | 05 | 06 | 27 |
| 10. | 5068 | Agro waterpath Inform. sys | 05 | 05 | 04 | 05 | 06 | 25 |
| 11. | 5062 | Eco friendly Tractor operations | 04 | 05 | 04 | 06 | 06 | 25 |
| 12. | 5025 | Smart Energy & water Conservation | 08 | 07 | 06 | 06 | 08 | 35 |

| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) |
|---|---|---|---|---|---|---|---|---|
| 13 | 5055 | AI: Guard. Risk Maugumt. | 8 | 8 | 6 | 9 | 8 | |
| 14 | 5045 | Health Monitony | 4 | 4 | 5 | 7 | 6 | |
| 15 | 5060 | Traffic Violation. - Lights | 8 | 5 | 5 | 9 | 6 | |
| 16 | 504 | Embeddud syst. IoT | 4 | 3 | 4 | 6 | 4 | |
| 17 | 5011 | Waste – Electricty. | 6 | 3 | 3 | 6 | 5 | |
| 18 | 50106 | Paddy wader. | 2 | 2 | 2 | 4 | 4 | |
| 19 | | Remote Power Tiller. | 9 | 3 | 3 | 9 | 4 | |
| 20 | | Fertilizer Finder | 3 | 4 | 4 | 7 | 4 | |
| 21 | | Traffic. | 4 | 4 | 4 | 5 | 3 | |
| 22 | 5034 | Smart lighting system | 4 | 3 | 3 | 6 | 4 | |
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JURY MEMBER

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti (Tk) Cuddalore (Dist) Pin-607 106

HoD

| | | | | | | |
|---|---|---|---|---|---|---|
| 4. | 5034 | ST. Anne's College of Engineering and technology Panruti | V. Pavithra<br>K. Prathreeba<br>S. Thirumalaivasan<br>P. Parasuraman | Smart lighting system | K. Prathreba | |
| 5. ✓ | | St. Anne's College of Engineering and Technology Panruti | P. Praveena<br>S. Abinaya | Ionic thruster | P. Praveena | d |
| 6. ✓ | | St. Anne's College of Engineering & technology Panruti. | Manibarathi. P<br>~~Muthazagan. N~~<br>Muthazhagan. N | Carbon Capture and storage | ~~Muthazhagan~~. P | on spot Paid |
| 7. | 5068 | St. Anne's College of Engineering & Tech. Panruti. | Suresh. S<br>Devaguru S.<br>Aravindh. E | Agro water Path<br>Inform system | S. Suresh | |

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|---|---|---|---|---|---|
| 4. | SOIT | ST.Anne's college of Engineering and Technology | Mohan.J<br>Archana.A<br>Dhivya.A<br>prithisha.E | Remote power Tiller | A.Archana |
| 5. | 5057 | ST. Anne's college of Engineering and Technology | ASHWIN.A | FERTILIZER FINDER | A.Ashwin |
| 6. | 5016 | St. Annes Colleg of. Engineering and. Technology. | B.Jayasee<br>E.Dhivyadharshini<br>M.Mohan Bharath<br>S.M.Kamalesh Wisha | INITIAL PADDY WEEDER. | B.Jayasee |
| 7. | 5028 | S.L.Annes CET | S.Lakshmi<br>~~M.Sasireka~~<br>K.Sujitha<br>M.mahalakshmi<br>M. Sasireka | Smart Ambulance | S.Lakshmi |

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|---|---|---|---|---|---|
| 8. | | C.K college of Engineering and technology | B. Sindhuja<br>A. Swathi | Women Safety | B. Sindhuja |
| 9. | 5080. | K S Rangasamy College of Technology | K. Thilak<br>J.S. Vishva Kasi<br>P. Sanjaydharan<br>R. Santhosh | Mind Maple | |
| 10. | 5011 | ~~K. Peer Mohammed~~ khan<br>Annai velankanni polytechnic colleg | K. PEER MOHAMMED KHAN | Ad Enhanced fraud detection application | |
| 11. | 504. | S.T. Anne's clg of Engg and Tech | S. Varthika<br>V. Sweety porcia<br>K. Sri Ranjani<br>K. Siva Ranjani | ~~S.T. Anne's C~~<br>IOT in Medical Field | |

| | | | | | |
|---|---|---|---|---|---|
| 12. | 50125 | CK College of Engineering and Technology, Cuddalore. | Keerthana. R<br>Sree Anjana. V | Dual-locomotion Robo Drone | Keerthana. R |
| 13. | 5091 | Idhaya Engineering college for Women chinnasalem | S. Sharmila<br>M. vishalini | Early warning system for glacial lake outburst Floods (GLOFS) | S. Sharmila. |
| 14. | 5063 | Idhaya Engineering college for women Chinnasalem. | R. Lathamaglshwari<br>K. Sneha<br>R. Kathamaheshwari. | Smart Laser home Security System. | K.S. |
| 15. | 5097 | University College of Engineering Villupuram | Aakash D<br>Mohamed Aslam<br>Mounika s M | IoT. Driven Railway Track Monitoring System | Mounika M |

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|---|---|---|---|---|---|
| 16. | 5062 | University College of Engineering, Villupuram | K. Diryadharshini<br>G. Priyadarshini | Eco-friendly Tractor operations | K. Diryad |
| 17. | 50115<br>~~5045~~ | University College of Engineering, Villupuram | A. Rajadurai<br>M. Vijayalakshmi | Smart landslide Detection and Early warning System | A. Raja |
| 18. | 5045 | ST. Anne's College of Engineering and Technology | A.K. Noor Samira<br>I. Maheswari<br>R. Mahalakshmi | Wearable Health monitoring device with Alerts | A.K. Noor Samira |
| 19. | 5060 | St. Anne's college of Engineering and Technology | P. Pavithra<br>K. Sathiya<br>M. Janani<br>M. Archana | Automatic lights while violated the Traffic rules | M. Janani |

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|---|---|---|---|---|---|
| 20. | | MRK. Institute of Technology, Kattumannar Koil. | B. RAMANAN<br>R. Snehan<br>S. Rishi Kesavan<br>K. Sivaguru | Design of Cost Effective Floating Waste Cleaning Robot using Arduino. | B. Ram. |
| 21. | 5088 | PAVENDHAR BHARATHIDASAN COLLEGE OF ENGG & TECH TRICHY | MUKUNDHAN. R<br>YOGARAJ. R | REAL TIME HELMENT DETECTION IN TWO-WHEELER | R. M. |
| 22. | 5082 | PSR Engineering College | JEYAGANESH. M<br>MOHAN RAJ. M<br>MUTHU KUMAR. R<br>MUJEEP RAGUMAN. M | Smart waste management system | |
| 23. | 5022 | Idhaya Engineering college For Women | K. Yogadhoorshini<br>M. Nandhini | Home Automation using IOT | K |

on spot (Paid)

| | | | | | |
|---|---|---|---|---|---|
| 24. | 5025 | CK college of Engineering and Technology | Kalaiwarsan.V<br>Thirumurugan.K<br>Priyadharshini.R<br>Durga.A | SMART ENERGY AND WATER CONSERVATION | Kalaiwarsan.V |
| 25. | | AKT Memorial colleges of Engineering and Technology. | Balamurugan C<br>Arun M<br>Kalaimani L<br>Rajesh R | Feeding Animals to prevent Road Accident | C. Jahn } 2 mark Paper Presentation to Visitor |
| 26. | | AKT Memorial College of Engineering and Technology. | Nithiya.S<br>Nishor.M<br>Karunarathi.R<br>Saranikar.J | Wireless sensor Network Based controlling and Monitoring of food storange system. | } on spot Paper. |
| 27. | | | | | |

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## IDEA MAKERS – 2.0

## IDEA PRESENTATION SCHEDULE

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5068 | ST ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY | DEVAGURU S<br>ARAVINDH E<br>SURESH.S | AGRO WATERPATH INFORM SYSTEM | 12.05 PM<br>to<br>12.12 PM |
| 7 | 50111 | ANNAI VELANKANNI POLYTECHNIC COLLEGE | PEER MOHAMMED KHAN K | AI-ENHANCED FRAUD DETECTION FOR SOCIAL MEDIA CONTENT | 12.12 PM<br>to<br>12.19 PM |
| 8 | 5058 | IFET COLLEGE OF ENGINEERING | AMEER KHAN K<br>JEYHASRI D | SECURESHE-SMART INTELLIPROTECT DEVICE WITH REAL-TIME THREAT DETECTION | 12.19 PM<br>to<br>12.26 PM |
| 9 | 5025 | CK COLLEGE OF ENGINEERING AND TECHNOLOGY | KALAIVARSAN.V<br>THIRUMURUGAN K<br>DURGA. A<br>R.PRIYADHARSHINI | SMART ENERGY AND WATER CONSERVATION | 12.26 PM<br>to<br>12.35 PM |
| 10 | 5062 | UNIVERSITY COLLEGE OF ENGINEERING, VILLUPURAM | DIVYADHARSHINI K<br>PRIYADARSHINI.G | ECO FRIENDLY TRACTOR OPERATIONS | 12.35 PM<br>to<br>12.42 PM |
| 11 | 5055 | IFET COLLEGE OF ENGINEERING | SURIYA PRAKASH PK<br>SUBASRI JD | TECTOSEISMOAI GUARD : INTEGRATED PLATE TECTONICS AND SEISMIC RISK MANAGEMENT SYSTEM | 12.42 PM<br>to<br>12.49 PM |
| 12 | 50106 | ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY | M. MOHANBARATH<br>S. M. KAMALINISHA<br>B . JAYASRI<br>E.DHIVYADHARSHINI | INITIAL PADDY WEEDER | 12.49 PM<br>to<br>12.56 PM |

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## IDEA MAKERS – 2.0

## IDEA PRESENTATION SCHEDULE

**Venue:** MB212-Optical and Microwave Lab

| BATCH NO | TEAM ID | COLLEGE NAME | TEAM MEMBERS | TITLE | TIME |
|---|---|---|---|---|---|
| 1 | 5072 | KASTURBA GANDHI NURSING COLLEGE, SRI BALAJI VIDYAPEETH - DEEMED TO BE UNIVERSITY, PUDUCHERRY | VIJAY R<br>PUNITHA JOSEPHINE S | DISPOSABLE INFECTION FREE HEMOSTATIC TOURNIQUET (DIFHT) FOR ATTAINING HEMOSTATIS AT DECANNATION SITE AMONG HEMODIALYSIS PATIENTS | 11.30 AM<br>to<br>11.37 AM |
| 2 | 5091 | IDHAYA ENGINEERING COLLEGE FOR WOMEN | SHARMILA S<br>VISHALINI .M | EARLY WARNING SYSTEM FOR GLOFS | 11.37 AM<br>to<br>11.44 AM |
| 3 | 5097 | UNIVERSITY COLLEGE OF ENGINEERING, VILLUPURAM | MOUNIKA S M MOHAMED ASLAM A<br>AAKASH D | IOT DRIVEN RAILWAY TRACK MONITORING SYSTEM | 11.44 AM<br>to<br>11.51 AM |
| 4 | 5088 | PAVENDAR BHARATHIDASAN COLLEGE OF ENGINEERING AND TECHNOLOGY,TRICHY | YOGARAJ R<br>MUGUNTHAN R | REAL-TIME HELMET DETECTION IN 2-WHEELER | 11.51 AM<br>to<br>11.58 AM |
| 5 | 5082 | PSR ENGINEERING COLLEGE | JEYAGANESH.M<br>MOHANRAJ M<br>MUTHUKUMAR R<br>MUJEEP RAGUMAN.M | SMART WASTE MANAGEMENT SYSTEM | 11.58 AM<br>to<br>12.05 PM |

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### NATIONAL LEVEL IDEA COMPETITION

## "IDEAMAKERS – 2.0"

### EVALUATION SHEET

**DEPARTMENT:** ECE

**DATE:** 07.11.2024

| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) | |
|---|---|---|---|---|---|---|---|---|---|
| 1. | 5087 | DRIVER DROWSINESS SENTRY SYSTEM | 5 | 4 | 4 | 6 | 4 | 23 | 29 = 52 |
| 2. | 5051 | SMART FALLDOWN DETECTION WATCH | 3 | 3 | 4 | 2 | 3 | 15 | 30 = 45 |
| 3. | | Jute wraps for fashion items | 3 | 2 | 3 | 2 | 4 | 14 | 25 = 39 |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |
| 6. | | CARBON CAPTURE | 7 | 5 | 5 | 8 | 7 | 32 | 37 = 69 |
| 7. | | Feeding animals | 6 | 5 | 4 | 2 | 4 | 21 | 20 = 41 |
| 8. | | SMART EV | 3 | 2 | 2 | 2 | 0 | 9 | 22 = 31 |
| 9. | | IONIC THRUSTER | 5 | 4 | 4 | 5 | 5 | 23 | 18 = 41 |
| 10. | | SMART LASER HOME SEC. IOT | 5 | 3 | 3 | 7 | 2 | 20 | 38 = 58 |
| 11. | | HOME AUTOMATION | 3 | 3 | 3 | 2 | 5 | 16 | 19 = 35 |
| 12. | | Women SAFETY | 7 | 5 | 5 | 9 | 7 | 33 | 23 = 56 |

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|---|---|---|---|---|---|---|---|---|---|
| 13. | | Drone | 5 | 5 | 5 | 9 | 6 | 30 | 27 = 5 |
| 14. | | WATER SURFACE cleaning | 5 | 5 | 4 | 6 | 5 | 25 | 25 = 5 |
| 15. | | WATER SURFACE cleaning. | 5 | 5 | 4 | 4 | 5 | 23 | 23 = 4 |
| 16. | | TEACHING BOT | 4 | 4 | 3 | 4 | 5 | 20 | 23 = 4 |
| 17. | | Food Storage | 4 | 4 | 4 | 5 | 6 | 23 | 24 = 4 |
| 18. | | | | | | | | | |
| 19. | | | | | | | | | |
| 20. | | | | | | | | | |
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Head of the Department
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St. Anne's College of Engineering and Technology
Angichettypalayam, Panruti-(T.K) Cuddalore-(Dist.),Pin:607 106

V. Lokesh
**JURY MEMBER**

**HoD**

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### NATIONAL LEVEL IDEA COMPETITION

### "IDEAMAKERS – 2.0"

**EVALUATION SHEET**

**DEPARTMENT:** ECE **DATE:** 07.11.2024

| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) | |
|---|---|---|---|---|---|---|---|---|---|
| 1. | 5087 | Drivers Drowsiness Sentry system (KPR Institute) | 5 | 5 | 5 | 7 | 7 | 29 | |
| 2. | | | | | | | | | |
| 3. | 5051 | Smart falldown detection watch | 5 | 5 | 6 | 6 | 7 | 30 | |
| 4. | 5026 | | | | | | | | |
| 5. | | Jute wraps for fashion items | 5 | 5 | 5 | 5 | 5 | 25 | |
| 6. | . | | | | | | | | |
| 7. | .. | Carbon Capture storage | 7 | 7 | 7 | 9 | 7 | 37 | II |
| 8. | | Feeding Animals to Prevent road accidents | 4 | 4 | 4 | 4 | 4 | 20 | |
| 9. | | Design and Development of Smart EV charger | 4 | 4 | 5 | 4 | 5 | 22 | |
| 10. | | Ionic Thruster | 4 | 4 | 4 | 3 | 3 | 18 | |
| 11. | | Smart laser Home security system using IOT | 7 | 7 | 7 | 9 | 8 | 38 | I |
| 12. | | Home automation using IOT | 4 | 4 | 4 | 4 | 3 | 19 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 13. | | Women safety Analytics Prok using women | 5 | 4 | 5 | 4 | 5 | 23 |
| 14. | | Dual locomotive Drone | 5 | 6 | 6 | 5 | 5 | 27 |
| 15. | | Autonomous Water Surface cleaning Robot | 5 | 5 | 5 | 5 | 5 | 25 |
| 16. | | Floatiswartin cleaning robot | 4 | 4 | 5 | 5 | 5 | 23 |
| 17. | | Teaching BoT | 5 | 5 | 5 | 4 | 4 | 23 |
| 18. | | Food Storage System - WSN | 5 | 5 | 5 | 4 | 5 | 24 |
| 19. | | | | | | | | |
| 20. | | | | | | | | |
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| 22. | | | | | | | | |
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Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

JURY MEMBER R. DAYANA

HoD

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### NATIONAL LEVEL IDEA COMPETITION

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**EVALUATION SHEET**

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**DATE:** 07.11.2024

| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) |
|---|---|---|---|---|---|---|---|---|
| 1. | 5072 | Disposable Infection free Hemostatic Tourniquet (DIFT). | 10 | 10 | 10 | 07 | 09 | 46 |
| 2. | 5091 | Early warning sys for GLOFS | 05 | 05 | 06 | 05 | 05 | 26 |
| 3. | 5097 | IoT Driven Railway track monitoring system. | 06 | 04 | 04 | 04 | 05 | 23 |
| 4. | 5088 | Real-time Helmet Detection in 2 wheeler. | 05 | 07 | 06 | 05 | 07 | 30 |
| 5. | 5082 | Smart Waste Management system | 05 | 06 | 04 | 04 | 06 | 25 |
| 6. | 5080 | Mind maple | 10 | 09 | 09 | 10 | 10 | 48 — I |
| 7. | 5011 | ~~AI - Enhanced Agro-Intelligent Path~~ AI for Fraud Detection in Social Media | 09 | 08 | 07 | 09 | 08 | 41 |
| 8. | 5058 | Secure SHE - SMART INTELLI Content PROTECT DEVICE WITH Real-time threat detection. | 07 | 08 | 07 | 08 | 10 | 40 |
| 9. | 5015 | Smart landslide Detection & Early warning sys | 06 | 05 | 05 | 05 | 06 | 27 |
| 10. | 5068 | Agro waterpath Inform. sys | 05 | 05 | 04 | 05 | 06 | 25 |
| 11. | 5062 | Eco friendly Tractor operations | 04 | 05 | 04 | 06 | 06 | 25 |
| 12. | 5025 | Smart Energy & water Conservation | 08 | 07 | 06 | 06 | 08 | 35 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 13. | 5055 | Tecto Seismo AI Guard: Risk Management Sys. | 07 | 06 | 07 | 07 | 09 | 36 |
| 14. | 5045 | Wearable Health Monitoring Device with Alerts | 05 | 05 | 05 | 05 | 05 | 25 |
| 15. | 5060 | Automatic Light Mile Violated the rules. | 05 | 05 | 05 | 05 | 05 | 25 |
| 16. | 5004 | ~~Embedded~~ + IoT | 06 | 07 | 05 | 08 | 08 | |
| 17. | | | | | | | | |
| 18. | | | | | | | | |
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Head of the Department
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Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin:607 106

JURY MEMBER

HoD

| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) |
|---|---|---|---|---|---|---|---|---|
| 13 | 5055 | AI: Guard. Risk Mangemt. | 8 | 8 | 6 | 9 | 8 | |
| 14 | 5045 | Health Monitory | 4 | 4 | 5 | 7 | 6 | |
| 15 | 5060 | Traffic Violation. - Lights | 8 | 5 | 5 | 9 | 6 | |
| 16 | 504 | Embedded syst. - IOT | 4 | 3 | 4 | 6 | 4 | |
| 17 | 5011 | Waste – Electricity. | 6 | 3 | 3 | 6 | 5 | |
| 18 | 50106 | Paddy water. | 2 | 2 | 2 | 4 | 4 | |
| 19 | | Remote Power Tiller. | 9 | 3 | 3 | 9 | 4 | |
| 20 | | Fertilizer Finder | 3 | 4 | 4 | 7 | 4 | |
| 21 | | Traffic. | 4 | 4 | 4 | 5 | 3 | |
| 22 | 5034 | Smart lighting system | 4 | 3 | 3 | 6 | 4 | |
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JURY MEMBER

HoD

| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) |
|---|---|---|---|---|---|---|---|---|
| 13 | S055 | Waste management. | 8 | 7 | 8 | 9 | 8 | |
| 14 | S045 | Wearable Health monitoring | 5 | 4 | 4 | 5 | 4 | |
| 15 | | Volatile Rules | 9 | 8 | 7 | 10 | 10 | |
| 16 | S064 | Smart Healthcare IoT | 4 | 4 | 4 | 8 | 4 | |
| 17 | S011 | Waste | 4 | 2 | 3 | 4 | 2 | |
| 18 | S016 | Paddy Warden | 4 | 4 | 3 | 4 | 3 | |
| 19 | | Remote power Filter | 4 | 4 | 4 | 6 | 6 | |
| 20 | | Fertilizer | 3 | 3 | 2 | 2 | 2 | |
| 21 | | Smart Ambulance | 4 | 3 | 5 | 4 | 5 | |
| | | Smart light | 4 | 4 | 3 | 5 | 5 | |
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| S. No. | Team ID | Title | Solution (10) | Novelty (10) | Methodology (10) | Presentation Skills (10) | Market Scope/Social Impact (10) | Total Marks (50) |
|---|---|---|---|---|---|---|---|---|
| . | 5011 | How to Turn Waste into Electricity. | 05 | 05 | 05 | 05 | 05 | 25 |
| | 5006 | Initial paddy | 06 | 05 | 05 | 06 | 07 | 29 |
| | 5017 | Remote Paddy Tiller. | 06 | 05 | 05 | 07 | 08 | 32 |
| | 5057 | Kut | 07 | 05 | 05 | 05 | 05 | 27 |
| | 5028 | Smart Ambulance | 04 | 05 | 04 | 06 | 06 | 25 |
| | | Smart Light | 05 | 04 | 04 | 05 | 05 | 23 |
| | | | | | | | | |
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Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.K) Cuddalore-(Dist.),Pin:607 106

JURY MEMBER

HoD

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

## FEEDBACK ON NATIONAL LEVEL IDEA CONTEST

**DEPARTMENT:** ECE

**PERIOD:** 2024-2025

**EVENT TITLE:** IDEAMAKERS 2.O

**DATE:** 07.11.2024

| Q. No | Questions | Student Count | Credit Category | | | | Total Credit | Credit Secured | Percentage |
|---|---|---|---|---|---|---|---|---|---|
| | | | 4 | 3 | 2 | 1 | | | |
| 1 | Did the event meet your expectations? | 95 | 62 | 33 | 0 | 0 | 380 | 347 | 91 |
| 2 | How would you rate the relevance of the theme of ideamakers-2023 theme? | 95 | 82 | 13 | 0 | 0 | 380 | 367 | 97 |
| 3 | How would you rate the overall organization and logistics of the event, including registration, communication, and event timings? | 95 | 70 | 25 | 0 | 0 | 380 | 355 | 93 |
| 4 | How would you rate the effectiveness of the mentorship and guidance you received during the event? | 95 | 84 | 11 | 1 | 0 | 380 | 371 | 98 |
| 5 | How would you rate the networking opportunities and interactions with other participants? | 95 | 90 | 3 | 2 | 0 | 380 | 373 | 98 |
| 6 | How would you rate the effectiveness of event communication and updates throughout the event? | 95 | 72 | 23 | 0 | 0 | 380 | 357 | 94 |
| 7 | How would you rate the transparency and fairness of the judging and evaluation process? | 95 | 78 | 17 | 0 | 0 | 380 | 363 | 96 |
| 8 | How likely are you to participate in a similar ideamakers-2023 event in the future? | 95 | 75 | 20 | 0 | 0 | 380 | 360 | 95 |
| 9 | How would you rate your overall satisfaction with the ideamakers-2023 event? | 95 | 85 | 10 | 0 | 0 | 380 | 370 | 97 |
| 10 | Please provide any specific suggestions or comments that would help us improve future ideamakers-2023 events. | 95 | 91 | 4 | 0 | 0 | 380 | 376 | 99 |
| | | | | | | | | **OVERALL PERCENTAGE** | **96** |

**EVENT CO-ORDINATOR**

**HoD**

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.) Pin:607 106

**PRINCIPAL**

Dr.R.ARUMUGAM, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist). Pin: 607 110

**ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY**
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IDEA MAKERS 2.O - 2024

# REPORT

**Objective:**

- The Competition encourages a generation of innovative ideas in terms of new products, services and technologies in the built environment from students
- The contest intends to introduce new stimuli into the minds of the students and acknowledge the potentiality of their idea.
- It aims to spark innovation and instill a sense of confidence among the students.

**Report:**

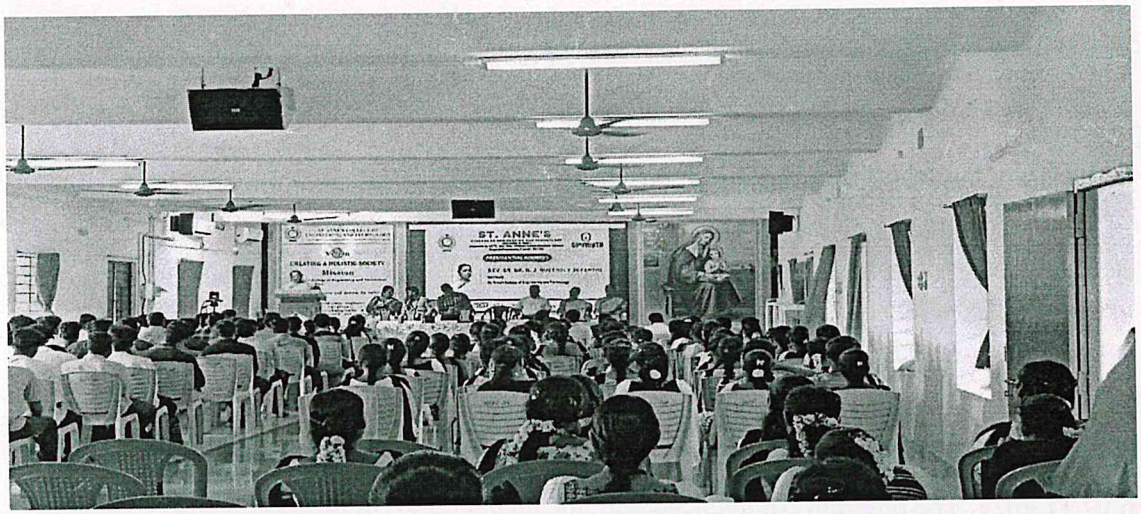
The Department of Electronics and Communication Engineering (ECE) in association with **Startup TN** has organized a National Level Idea Competition **"Idea Makers 2.O-2024"** on 07.11.2024. The program commenced with the inaugural event in which our Secretary, Dr. Sr. BJ. Queensly jayanthi, our Principal, Dr. R. Arokiadass, Vice Principal Sr. Punita Jilt , HoD, Dr. Sr.S. Anita, the chief guest Mr. A. Senthamilarasan, Project Lead, Startup TN Cuddalore Regional Hub, Dr.J.Saranya, Chief Operating Officer, Armor shield healthcare Innovations, Chennai , jury members Dr. R. Dayana, Associate Professor, ECE, SRM Institute of Science and Technology, Mr. S. Vibith , Project Associate, Startup TN Cuddalore Regional Hub, teaching and non-teaching staff and students from all the department of SANCET and other colleges has been presented. The chief guest Mr. A. Senthamilarasan was honored with a shawl and memento by our Secretary, Dr. Sr. BJ. Queensly jayanthi and Principal, Dr. R. Arokiadass. After the completion of the inauguration, the session was handed-over to the chief guest. He shared her view on "Achieve an innovative eco system in the State by joining hands". He expressed her thoughts and ideas about entrepreneurship in provoking way. Next the event moved on to Idea Presentation based on the schedule. 5 teams presented online mode through google meet and 34 teams presented in offline mode. Totally 39 teams presented. The event started with the description and rules & regulations about the event. Students were given 7 minutes time to present their ideas after which there were questions put up on them by the judges as well as the students. The winners (1st, 2nd and 3rd position) are rewarded with cash prize of Rs. 5000, Rs. 3,000 and Rs. 2000 respectively. The details of the teams are as follows:

| S. No | Position | Name | Institute |
|---|---|---|---|
| 1 | First | K.Thilak<br>J.S Vishva Kasi<br>P. Sanjaydharan<br>R.Santhosh | K.S Rangasamy College of Engineering and Technology, Tiruchengode |
| 2 | Second | P. Manibarathi<br>N. Muthazhagan | St. Anne's College of Engineering and Technology, Panruti |
| 3 | Third | K. Peer Mohamed Khan | Annai Velankanni Polytechnic College Panruti |

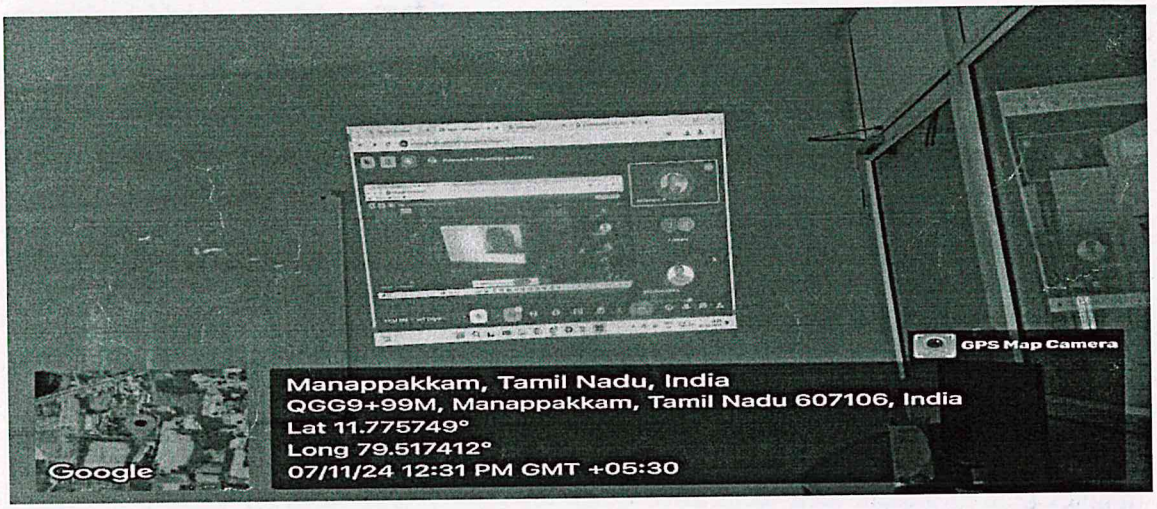
All the participants were rewarded with certificates. The program was concluded in a fruitful manner.

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

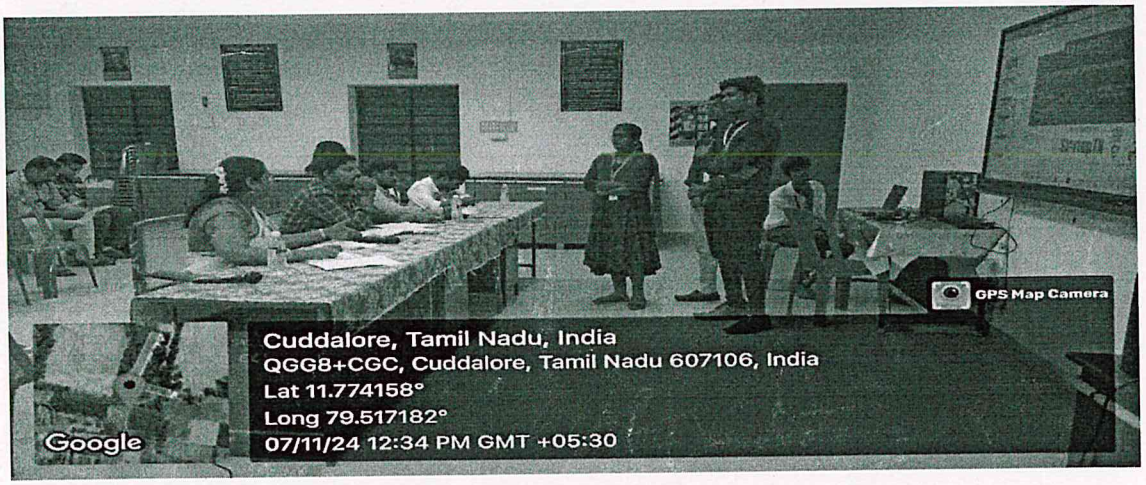
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**Inaugural Function**

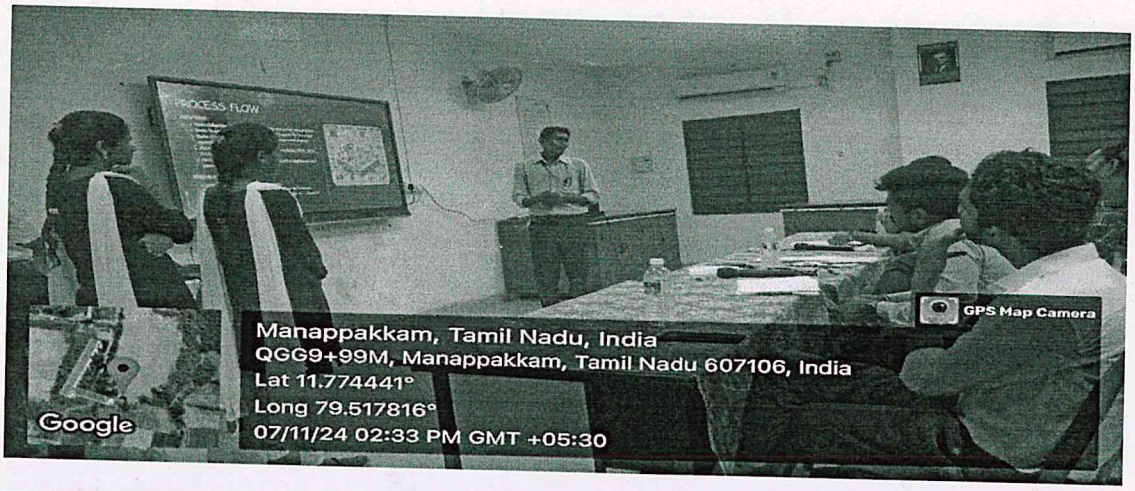



**Students actively participating in online Presentation Mode**



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**Valedictory Function**



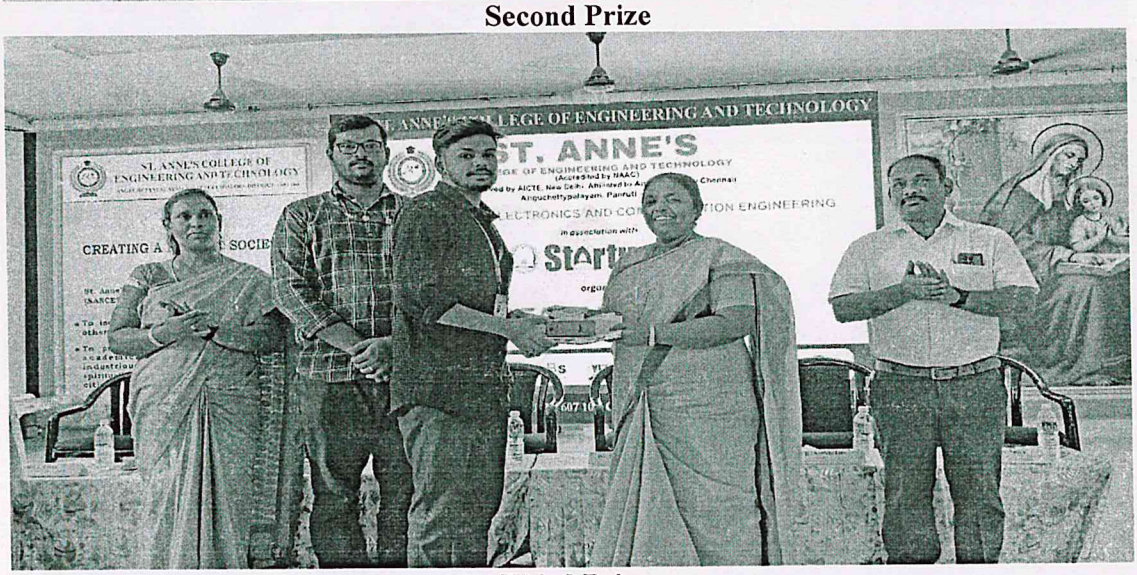

**First Prize**

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**Second Prize**




**Third Prize**

**Outcomes:**

- Students from different institutes enhanced their entrepreneurial and Startup skills.
- The idea contests to showcase the talents would help the students to exhibit their skills and project their ideas with peers and also with the industry experts.
- The contest aimed to bring together industry and academia experts to strengthen the industry-institution interaction and also to get the students' projects evaluated by the industry experts which would help the students to understand the need for implementing quality projects to excel in their professional career.
- Students will get motivated on enhancing their subject knowledge.

**EVENT COORDINATOR**

**HoD**

ECE Department
St. Anne's College of Engineering & Technology
ANGUCHETTIPALAYAM,
Siruvathur-Post, Panruti-T.k,
Cuddalore-Dist. 607 106

**PRINCIPAL**

Dr.R.AROKIADASS, M.E., Ph.D.,
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## CIRCULAR

## (2024 - 2025)

**CIR. No: SANCET/ECE/CIR/19** **14.03.2025**

It is informed that the Department of Electronics and Communication Engineering in association with Electronics and Communication Scientia Association (ECSA) and Arduino LLC (Limited Liability Company) organizes the internal project contest **"ARDUFEST 2025"** on account of Arduino day 2025. All the students and staff are invited to attend this contest.

**Date & Time:** 21.03.2025 & 10.00 AM

**Venue** : VLSI Lab

14/3/25
**EVENT CO-ORDINATOR**

**HoD** 14/3/25

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

14.3.25
**PRINCIPAL**

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# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## ARDUFEST-2025

**21st MARCH 2025**

## INAUGURATION

# AGENDA

- **Prayer Song**
- **Bible Reading**
- **Welcome Address & Honouring**
- **Felicitation by Principal**
- **Vote of Thanks**

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### INTERNAL PROJECT CONTEST

## "ARDUFEST 2025"

**VENUE: OPTICAL LAB** **TIME SCHEDULE** **DATE: 21.03.2025**

| BATCH. NO | SEM/ YEAR | TIME | TEAM MEMBERS | TITLE |
|---|---|---|---|---|
| 1. | VI/III | 10.00 A.M | 1. Cherishma R<br>2. Kalaimathi R<br>3. Dhivya T<br>4. Sankari S | Radar using Ultrasonic Sensor and Arduino |
| 2. | VI/III | 10.08 A.M | 1. Devaguru S<br>2. Aravindh E<br>3. Arun N<br>4. Amirdhavardhan V<br>5. Pattabiraman S | Smart Hair Prevention System |
| 3. | VI/III | 10.16 A.M | 1. Pratheeba K<br>2. Pavithra V<br>3. Monika M<br>4. Kavipriya P | Smart Street Light |
| 4. | VI/III | 10.24 A.M | 1. Suresh S<br>2. Gobinath B<br>3. Ramana A<br>4. Sathishkumar E<br>5. Sivaselvam K.E | Automated Fertilizer dispenser |
| 5. | VI/III | 10.32 A.M | 1. Sasireka M<br>2. Lakshmi S<br>3. Sujitha K<br>4. Mahalakshmi M | Automatic Water Level Controller |
| 6. | VI/III | 10.40 A.M | 1. Thirumalaivasan S<br>2. Parasuraman P<br>3. Murali M<br>4. Priyadharshan G<br>5. Niranjan P | Automatic Door System |
| 7. | VI/III | 10.48 A.M | 1. Archana A<br>2. Subashini S<br>3. Sivagama Sundari S<br>4. Srimathi S<br>5. Jeevitha V | Temperature Based Automatic fan Speed Control |

| | | | | |
|---|---|---|---|---|
| 8. | **VI/III** | **10.56 A.M** | 1. Kumaran A<br>2. Premkumar E<br>3. Dhamotharan K<br>4. Alex Dominic A | LPG gas Leakage detector and automatic set off system |
| 9. | **VI/III** | **11.04 A.M** | 1. Abinaya M<br>2. Aarthi S<br>3. Desika M<br>4. Navitha A | Solar Tracker |
| 10. | **VI/III** | **11.12 A.M** | 1. Dhinesh D<br>2. Aakash A<br>3. Raji N<br>4. Sivaraman S | Automatic rain detector system |
| 11. | **VI/III** | **11.20 A.M** | 1. Balaji P<br>2. Chandru P<br>3. Ajay Krishna V<br>4. Surya K<br>5. Thangapandiyan M | Obstacle avoidance robot using Arduino |
| 12. | **IV/II** | **11.28 A.M** | 1. Durai Selvam R<br>2. Mohan Bharath M<br>3. Arujanan A<br>4. Harikrishnan B | Military radar using Arduino and ultrasonic sensor |
| 13. | **IV/II** | **11.36 A.M** | 1. Devisri B<br>2. Dhivya R<br>3. Biravi V<br>4. Sriranjani K | Self-regulating water level controller using Arduino UNO |
| 14. | **IV/II** | **11.44 A.M** | 1. Rohan Raj A<br>2. Alwin A<br>3. Mohamed Rafil N<br>4. Arul Murugan T | Smoke detector using gas sensor |
| 15. | **IV/II** | **11.52 A.M** | 1. Kamali Nisha S.M<br>2. Dhivya Dharshini E<br>3. Jayasri B<br>4. Abinaya S | Bucky-at air conditioner |
| 16. | **IV/II** | **12.00 P.M** | 1. Dinesh D<br>2. Durai Murugan K<br>3. Sathana Krishnan P<br>4. Robin Raj G | Automatic Light ON/OFF System |

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| | | | | |
|---|---|---|---|---|
| 17. | **IV/II** | **12.08 P.M** | 1. Sweety Porcia V<br>2. Varthika S<br>3. Mano Preethi A<br>4. Sangeetha K<br>5. Siva Ranjini K | Lumasense |
| 18. | **IV/II** | **1.00 P.M** | 1. Pransanth M<br>2. Vishwa J<br>3. Sanjay S<br>4. Balaji M<br>5. Surendira Prabhu S | Gas leak detector using Arduino |
| 19. | **IV/II** | **1.08 P.M** | 1. Sibi G | Traffic Light monitoring system using Arduino |
| 20. | **VIII/ IV** | **1.16 P.M** | 1. Sanjai S<br>2. Ragunath A<br>3. Ashwin A<br>4. Surya R | ARDVIRON: Automated poultry management system using Arduino |
| 21. | **VIII/ IV** | **1.24 P.M** | 1. Vaishali S<br>2. Anitha R<br>3. Deepika K | Smart IoT based bus tracking passenger management system |
| 22. | **VIII/ IV** | **1.32 P.M** | 1. Raja Mohan P<br>2. Selva Kumar S<br>3. Viswanath N<br>4. Mangalahwar U | Automated and decentralized IoT and Cloud based Water level and quality audit system |
| 23. | **VIII/ IV** | **1.40 P.M** | 1. Sathish Kumar P<br>2. Gopinath V<br>3. Balaguru P<br>4. Abi E | Dual Axis-tracking system |
| 24. | **VIII/ IV** | **1.48 P.M** | 1. Archana A<br>2. Dhivya A<br>3. Mohana P<br>4. Prithisha E<br>5. Mohan J | Automated Irrigation system for paddy ultilizing sensor |
| 25. | **VIII/ IV** | **1.56 P.M** | 1. Sri Hari K<br>2. Durai Murugan A<br>3. Immanvel T | AI-Toilet |

20/3/25

**EVENT COORDINATOR**

22/3/25

**HoD**

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## INTERNAL PROJECT CONTEST

## "ARDUFEST 2025"

**VENUE LAB: OPTICAL LAB** **EVALUATION SHEET** **DATE: 21.03.2025**

| S. No. | Batch No. | Title | Idea & Solution (25) | Circuit diagram & Methodology (25) | Presentation Skills & Team collaboration (25) | Proof of concept (25) | Total Marks (100) |
|---|---|---|---|---|---|---|---|
| 1. | 1 | Radar using ultrasonic Sensor | 18 | 15 | 15 | 15 | 63 |
| 2. | 2 | Smart Hair Fall Prevention System | 22 | 21 | 22 | 23 | 88 |
| 3. | 3 | Smart Street Light | 16 | 17 | 12 | 15 | 60 |
| 4. | 4 | Automated Fertilizer Dispenser | 20 | 22 | 20 | 22 | 84 |
| 5. | 19 | Traffic Light monitoring System using Arduino | 10 | 10 | 10 | 0 | 30 |
| 6. | 5 | Automatic water Level Controller | 19 | 20 | 22 | 20 | 81 |
| 7. | 6 | Automated Door System | 17 | 20 | 17 | 18 | 72 |

| S. No. | Batch No. | Title | Idea & Solution (25) | Circuit diagram & Methodology (25) | Presentation Skills & Team collaboration (25) | Proof of concept (25) | Total Marks (100) | |
|---|---|---|---|---|---|---|---|---|
| 8. | 7 | Temperature based automatic Fan Control using arduino | 16 | 18 | 18 | 17 | 69 | |
| 9. | 8 | LPG Gas Leakage detection System & shut off System | 18 | 22 | 20 | 21 | 81 | 159 Concept T |
| 10. | 9 | Solar Tracker. | 15 | 12 | 15 | 0 | 32 | T |
| 11. | 10 | Automatic Rain Detection System | 18 | 16 | 18 | 10 | 62 | |
| 12. | 11 | Obstacle Avoidance Robot using Arduino | 20 | 21 | 22 | 20 | 83 | 169 |
| 13. | 12 | Military Radar Using Arduin UNO | 15 | 17 | 13 | 15 | 60 | |
| 14. | 13 | Self regulating water Level Controller using Arduino UNO | 20 | 22 | 22 | 21 | 85 | |
| 15. | 14 | Smoke detecting using Gas sensor | 15 | 17 | 17 | 18 | 67 | |
| 16. | 15 | BUCKY-ET - AIR conditioner. | 20 | 22 | 20 | 15 | 77 | |
| 17. | 16 | Automatic Light ON/OFF Syste | 15 | 15 | 13 | 15 | 58 | |
| 18. | 17 | Luma Sense | 22 | 22 | 22 | 20 | 86 | |

| S. No. | Batch No. | Title | Idea & Solution (25) | Circuit diagram & Methodology (25) | Presentation Skills & Team collaboration (25) | Proof of concept (25) | Total Marks (100) |
|---|---|---|---|---|---|---|---|
| 19. | 18 | Gas leak Detector using Arduino | 20 | 17 | 15 | 20 | 72 |
| 20. | 20 | ARDVIRON: Automated Poultry mangemnt Systemusing Arduino | 22 | 23 | 22 | 23 | 90 |
| 21. | 21 | Smart IoT Based Bus Tracking Passnger mangemnt System. | 21 | 20 | 18 | 18 | 77 |
| 22. | 24 | Automated Irrigation System for Paddy utilizing Sensors | 22 | 23 | 21 | 22 | 88. |
| 23. | | Dual axis Solar Tracking System | 20 | 17 | 18 | 18 | 73. |
| 24. | | | | | | | |
| 25. | | | | | | | |
| 26. | | | | | | | |
| 27. | | | | | | | |
| 28. | | | | | | | |
| 29. | | | | | | | |

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|---|---|---|---|---|---|---|---|
| 30. | | | | | | | |
| 31. | | | | | | | |
| 32. | | | | | | | |
| 33. | | | | | | | |

JURY 21/3/25

EVENT CO-ORDINATOR 21/3/25

HoD 21/3/2025

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

PRINCIPAL 21/3/25

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## INTERNAL PROJECT CONTEST

## "ARDUFEST 2025"

**VENUE LAB: OPTICAL LAB** **EVALUATION SHEET** **DATE: 21.03.2025**

| S. No. | Batch No. | Title | Idea & Solution (25) | Circuit diagram & Methodology (25) | Presentation Skills & Team collaboration (25) | Proof of concept (25) | Total Marks (100) |
|---|---|---|---|---|---|---|---|
| 1. | 1 | Radar using ultrasonic sensor. | 15 | 15 | 15 | 11 | 56 |
| 2. | 2 | Smart Hair fall prevention system. | 20 | 25 | 20 | 22 | 87 |
| 3. | 3 | Smart street light | 10 | 10 | 20 | 12 | 52 |
| 4. | 4 | Automated fertilizer dispensor | 20 | 20 | 10 | 14 | 64 |
| 5. | 19 | Traffic light system using Arduino | 10 | 05 | 10 | 11 | 36 |
| 6. | 5 | Automatic water level controller | 10 | 20 | 20 | 21 | 71 |
| 7. | | Automatic door system | 10 | 20 | 25 | 13 | 68 |

| S. No. | Batch No. | Title | Idea & Solution (25) | Circuit diagram & Methodology (25) | Presentation Skills & Team collaboration (25) | Proof of concept (25) | Total Marks (100) |
|---|---|---|---|---|---|---|---|
| 8. | 7 | Temperature based automatic fan control using arduino | 20 | 10 | 20 | 12 | 72 |
| 9. | 8 | LPG gas leakage system and shutoff system | 20 | 20 | 20 | 18 | 78 |
| 10. | 9 | Self regulating Solar tracker | 10 | 20 | 20 | 07 | 57 |
| 11. | 10 | Automatic rain detector system | 20 | 20 | 20 | 13 | 73 |
| 12. | 11 | obstacle avoiding robot using arduino | 20 | 20 | 25 | 21 | 86 |
| 13. | 12 | Military radar using arduino uno | 10 | 10 | 10 | 17 | 47 |
| 14. | 13 | Self regulating water level controller using Ard. | 20 | 20 | 20 | 17 | 77 |
| 15. | 14 | Smoke detector system using arduino gas sensor | 10 | 10 | 10 | 17 | 47 |
| 16. | 15 | Bucky-Et air condition | 20 | 20 | 10 | 13 | 63 |
| 17. | 16 | Automatic light ON/OFF system | 20 | 10 | 20 | 15 | 65 |
| 18. | 17 | Lunasense | 20 | 20 | 20 | 24 | 84 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 30. | | | | | | | |
| 31. | | | | | | | |
| 32. | | | | | | | |
| 33. | | | | | | | |

K. Sriram 21/3/25

**JURY**

[Dr.K. Sriram - AP/EEE]

21/3/25

**EVENT CO-ORDINATOR**

21/3/25

**HoD**

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

21.3.25

**PRINCIPAL**

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
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ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

| S. No. | Batch No. | Title | Idea & Solution (25) | Circuit diagram & Methodology (25) | Presentation Skills & Team collaboration (25) | Proof of concept (25) | Total Marks (100) |
|---|---|---|---|---|---|---|---|
| 19. | 18 | Gas leak detector using arduino | 20 | 10 | 20 | 14 | 64 |
| 20. | 20 | Automated poultry management using arduino | 20 | 25 | 25 | 17 | 87 |
| 21. | 21 | Smart IOt based bus tracking & passenger movement | 15 | 15 | 25 | 21 | 76 |
| 22. | 22 | Automated irrigation system for paddy utilization | 20 | 25 | 20 | 20 | 85 |
| 23. | 23 | Dual axis tracking system | 20 | 20 | 20 | 12 | 72 |
| 24. | | | | | | | |
| 25. | | | | | | | |
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| 29. | | | | | | | |

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai
Accredited by NAAC
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## FEEDBACK ON PROJECT CONTEST

**MODE:** Online (Google Forms) **PERIOD:** 2024-2025

**EVENT TITLE:** ARDUFEST-2025 **DATE:** 21.03.2025

| Q. No | Questions | Student Count | Credit Category | | | | | Total Credit | Credit Secured | Percentage |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 5 | 4 | 3 | 2 | 1 | | | |
| 1 | Did the event meet your expectations? | 102 | 71 | 20 | 11 | 0 | 0 | 510 | 468 | 92 |
| 2 | How would you rate the relevance of the theme of ARDUFEST-2025? | 102 | 65 | 19 | 18 | 0 | 0 | 510 | 455 | 89 |
| 3 | How would you rate the overall organization and event timings? | 102 | 65 | 18 | 19 | 0 | 0 | 510 | 454 | 89 |
| 4 | How would you rate the effectiveness of the mentorship and guidance you received during the event? | 102 | 72 | 17 | 13 | 0 | 0 | 510 | 467 | 91 |
| 5 | How likely are you to participate in a similar ARDUFEST-2025 event in the future? | 102 | 69 | 13 | 20 | 0 | 0 | 510 | 457 | 90 |
| 6 | How would you rate your overall satisfaction with the ARDUFEST-2025? | 102 | 73 | 25 | 4 | 0 | 0 | 510 | 477 | 94 |
| 7 | Was adequate time given for Presentation? | 102 | 65 | 23 | 14 | 0 | 0 | 510 | 459 | 90 |
| 8 | Was adequate time given for Q&A? | 102 | 70 | 20 | 12 | 0 | 0 | 510 | 466 | 91 |
| 9 | Did you feel comfortable sharing your thoughts during the Presentation? | 102 | 71 | 19 | 12 | 0 | 0 | 510 | 467 | 92 |
| 10 | Did the event offer good value for the time? | 102 | 70 | 18 | 14 | 0 | 0 | 510 | 464 | 91 |
| | | | | | | | | | **Overall Percentage** | **91** |

9/4/2025
**EVENT CO-ORDINATOR**

9/4/2025
**HoD**

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

**PRINCIPAL**
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

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**Department of ECE**

in association with

Electrospark (ECE Incubation Centre)
&
ARDUINO DAYS 2025

Arduino Limited Liability Company
organizes

# ARDUFEST 2025

*Ignite Innovation. Code the Future!*

21.03.2025

# CERTIFICATE
## of Achievement

This is to certify that Mr./Ms. A. ASHWIN . IV - ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY has participated in the Project Competition ARDUFEST - 2025 and won I place for his/her project titled ARDYIRON : AUTOMATED POULTRY MANAGEMENT SYSTEM USING ARDUINO.

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

| Co-ordinator | HoD/ECE | Principal |
|---|---|---|
| Mr. R. Radhakrishnan | Rev. Sr. Dr. S. Anita | Dr. R. Arokiadass |
| SANCET | SANCET | SANCET |

EVENT PARTNERS

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## 2025

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# CERTIFICATE

## of Achievement

This is to certify that Mr./Ms. A. RAGUNATH , IV - ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY has participated in the Project Competition ARDUFEST - 2025 and won I place for his/her project titled ARDVIRON : AUTOMATED POULTRY MANAGEMENT SYSTEM USING ARDUINO.

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

| Co-ordinator | HoD/ECE | Principal |
|---|---|---|
| Mr. R. Radhakrishnan | Rev. Sr. Dr. S. Anita | Dr. R. Arokiadass |
| SANCET | SANCET | SANCET |

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## of Achievement

This is to certify that Mr./Ms. S. SANJAI , IV - ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY has participated in the Project Competition ARDUFEST - 2025 and won I place for his/her project titled ARDYIRON : AUTOMATED POULTRY MANAGEMENT SYSTEM USING ARDUINO.

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

| Co-ordinator | HoD/ECE | Principal |
|---|---|---|
| Mr. R. Radhakrishnan | Rev. Sr. Dr. S. Anita | Dr. R. Arokiadass |
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# CERTIFICATE

## of Achievement

This is to certify that Mr./Ms. S. PATTABIRAM , III - ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY has participated in the Project Competition ARDUFEST - 2025 and won II place for his/her project titled SMART HAIR PREVENTION SYSTEM

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

Co-ordinator
Mr. R. Radhakrishnan
SANCET

HoD/ECE
Rev. Sr. Dr. S. Anita
SANCET

Principal
Dr. R. Arokiadass
SANCET

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This is to certify that Mr./Ms. V. AMIRDHAVARSHAN . III - ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY has participated in the Project Competition ARDUFEST - 2025 and won II place for his/her project titled SMART HAIR PREVENTION SYSTEM.

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

| Co-ordinator | HoD/ECE | Principal |
|---|---|---|
| Mr. R. Radhakrishnan | Rev. Sr. Dr. S. Anita | Dr. R. Arokiadass |
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# CERTIFICATE

## of Achievement

This is to certify that Mr./Ms. S. VARTHIKA , IV - ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY has participated in the Project Competition ARDUFEST - 2025 and won III place for his/her project titled LUMASENSE

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

| Co-ordinator | HoD/ECE | Principal |
|---|---|---|
| Mr. R. Radhakrishnan | Rev. Sr. Dr. S. Anita | Dr. R. Arokiadass |
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This is to certify that Mr./Ms. V. SWEETY PORCIA , II - ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY has participated in the Project Competition ARDUFEST - 2025 and won III place for his/her project titled LUMASENSE

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

Co-ordinator
Mr. R. Radhakrishnan
SANCET

HoD/ECE
Rev. Sr. Dr. S. Anita
SANCET

Principal
Dr. R. Arokiadass
SANCET

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ECSA

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This is to certify that Mr./Ms. K. SANGEETHA , II-ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY has participated in the Project Competition ARDUFEST - 2025 and won III place for his/her project titled LUMASENSE

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

| Co-ordinator | HoD/ECE | Principal |
|---|---|---|
| Mr. R. Radhakrishnan | Rev. Sr. Dr. S. Anita | Dr. R. Arokiadass |
| SANCET | SANCET | SANCET |

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ECSA

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This is to certify that Mr./Ms. A. MANO PREETHI , II - ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY has participated in the Project Competition ARDUFEST - 2025 and won III place for his/her project titled LUMASENSE

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

| Co-ordinator | HoD/ECE | Principal |
|---|---|---|
| Mr. R. Radhakrishnan | Rev. Sr. Dr. S. Anita | Dr. R. Arokiadass |
| SANCET | SANCET | SANCET |

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## of Achievement

This is to certify that Mr./Ms. K. SIVARANJANI , II - ECE of ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY.

has participated in the Project Competition ARDUFEST - 2025 and won III place

for his/her project titled LUMASENSE

held at St. Anne's College of Engineering and Technology, Panruti on 21.03.2025.

Co-ordinator
Mr. R. Radhakrishnan
SANCET

HoD/ECE
Rev. Sr. Dr. S. Anita
SANCET

Principal
Dr. R. Arokiadass
SANCET

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# ARDUFEST - 2025
# REPORT

**Objective:**

- The Project contest encourages a generation of innovative ideas in terms of new products, services and technologies in the built environment from students
- The contest intends to introduce new stimuli into the minds of the students and acknowledge the potentiality of their idea.
- It aims to spark innovation and instill a sense of confidence among the students.

**Report:**

The Department of Electronics and Communication Engineering (ECE) in association with **Arduino Limited Liability Company** has organized a Project Contest "**ARDUFEST-2025"** on the occasion of Arduino Day on 21.03.2025.After completion of the inauguration, the session was handed-over to the chief guest, our Principal, Dr. R. Arokiadass. He shared his view on "Arduino Day". He made a presentation on Arduino from introduction to code development using Arduino. Next, the event moved on to Presentation based on the schedule. 08 team from second year, 12 team from third year and 05 team from final year had presented their project. Students were given 7 minutes time to present their Project. Totally 25 teams presented. The details of the teams are given below.

| BATCH. NO | SEM/ YEAR | TEAM MEMBERS | PROJECT TITLE |
|---|---|---|---|
| 1. | VI/III | 1. Cherishma R<br>2. Kalaimathi R<br>3. Dhivya T<br>4. Sankari S | Radar using Ultrasonic Sensor and Arduino |
| 2. | VI/III | 1. Devaguru S<br>2. Aravindh E<br>3. Arun N<br>4. Amirdhavardhan V<br>5. Pattabiraman S | Smart Hair Prevention System |
| 3. | VI/III | 1. Pratheeba K<br>2. Pavithra V<br>3. Monika M<br>4. Kavipriya P | Smart Street Light |
| 4. | VI/III | 1. Suresh S<br>2. Gobinath B<br>3. Ramana A<br>4. Sathishkumar E<br>5. Sivaselvam K.E | Automated Fertilizer dispenser |
| 5. | VI/III | 1. Sasireka M<br>2. Lakshmi S<br>3. Sujitha K<br>4. Mahalakshmi M | Automatic Water Level Controller |

| | | | |
|---|---|---|---|
| 6. | VI/III | 1. Thirumalaivasan S<br>2. Parasuraman P<br>3. Murali M<br>4. Priyadharshan G<br>5. Niranjan P | Automatic Door System |
| 7. | VI/III | 1. Archana A<br>2. Subashini S<br>3. Sivagama Sundari S<br>4. Srimathi S<br>5. Jeevitha V | Temperature Based Automatic fan Speed Control |
| 8. | VI/III | 1. Kumaran A<br>2. Premkumar E<br>3. Dhamotharan K<br>4. Alex Dominic A | LPG gas Leakage detector and automatic set off system |
| 9. | VI/III | 1. Abinaya M<br>2. Aarthi S<br>3. Desika M<br>4. Navitha A | Solar Tracker |
| 10. | VI/III | 1. Dhinesh D<br>2. Aakash A<br>3. Raji N<br>4. Sivaraman S | Automatic rain detector system |
| 11. | VI/III | 1. Balaji P<br>2. Chandru P<br>3. Ajay Krishna V<br>4. Surya K<br>5. Thangapandiyan M | Obstacle avoidance robot using Arduino |
| 12. | IV/II | 1. Durai Selvam R<br>2. Mohan Bharath M<br>3. Arujanan A<br>4. Harikrishnan B | Military radar using Arduino and ultrasonic sensor |
| 13. | IV/II | 1. Devisri B<br>2. Dhivya R<br>3. Biravi V<br>4. Sriranjani K | Self-regulating water level controller using Arduino UNO |
| 14. | IV/II | 1. Rohan Raj A<br>2. Alwin A<br>3. Mohamed Rafil N<br>4. Arul Murugan T | Smoke detector using gas sensor |
| 15. | IV/II | 1. Kamali Nisha S.M<br>2. Dhivya Dharshini E<br>3. Jayasri B<br>4. Abinaya S | Bucky-at air conditioner |

| | | | |
|---|---|---|---|
| 16. | **IV/II** | 1. Dinesh D<br>2. Durai Murugan K<br>3. Sathana Krishnan P<br>4. Robin Raj G | Automatic Light ON/OFF System |
| 17. | **IV/II** | 1. Sweety Porcia V<br>2. Varthika S<br>3. Mano Preethi A<br>4. Sangeetha K<br>5. Siva Ranjini K | Lumasense |
| 18. | **IV/II** | 1. Pransanth M<br>2. Vishwa J<br>3. Sanjay S<br>4. Balaji M<br>5. Surendira Prabhu S | Gas leak detector using Arduino |
| 19. | **IV/II** | 1. Sibi G | Traffic Light monitoring system using Arduino |
| 20. | **VIII/ IV** | 1. Sanjai S<br>2. Ragunath A<br>3. Ashwin A<br>4. Surya R | ARDVIRON: Automated poultry management system using Arduino |
| 21. | **VIII/ IV** | 1. Vaishali S<br>2. Anitha R<br>3. Deepika K | Smart IoT based bus tracking passenger management system |
| 22. | **VIII/ IV** | 1. Raja Mohan P<br>2. Selva Kumar S<br>3. Viswanath N<br>4. Mangalahwar U | Automated and decentralized IoT and Cloud based Water level and quality audit system |
| 23. | **VIII/ IV** | 1. Sathish Kumar P<br>2. Gopinath V<br>3. Balaguru P<br>4. Abi E | Dual Axis-tracking system |
| 24. | **VIII/ IV** | 1. Archana A<br>2. Dhivya A<br>3. Mohana P<br>4. Prithisha E<br>5. Mohan J | Automated Irrigation system for paddy ultilizing sensor |
| 25. | **VIII/ IV** | 1. Sri Hari K<br>2. Durai Murugan A<br>3. Immanvel T | AI-Toilet |

Out of the above 25 team, 3 best team were selected for 1st, 2nd and 3rd position. The winners are rewarded with cash prize.

| S. No | Position | Name | YEAR | Project Title |
|---|---|---|---|---|
| 1 | First | Sanjai S<br>Raghunath A<br>Ashwin A<br>Surya R | IV | Automated Poultry Management system using Arduino. |
| 2 | Second | Devaguru S<br>Aravindh E<br>Arun N<br>Amirthavarshan V<br>Pattabibiraman S | III | Smart Hair Prevention System |
| 3 | Third | Sweety Portia V<br>Varthika S<br>Mano Preethi A<br>Sangeetha K<br>Siva Ranjani K | II | Lumasense |

All the participants were rewarded with certificates. The program was concluded in a fruitful manner.



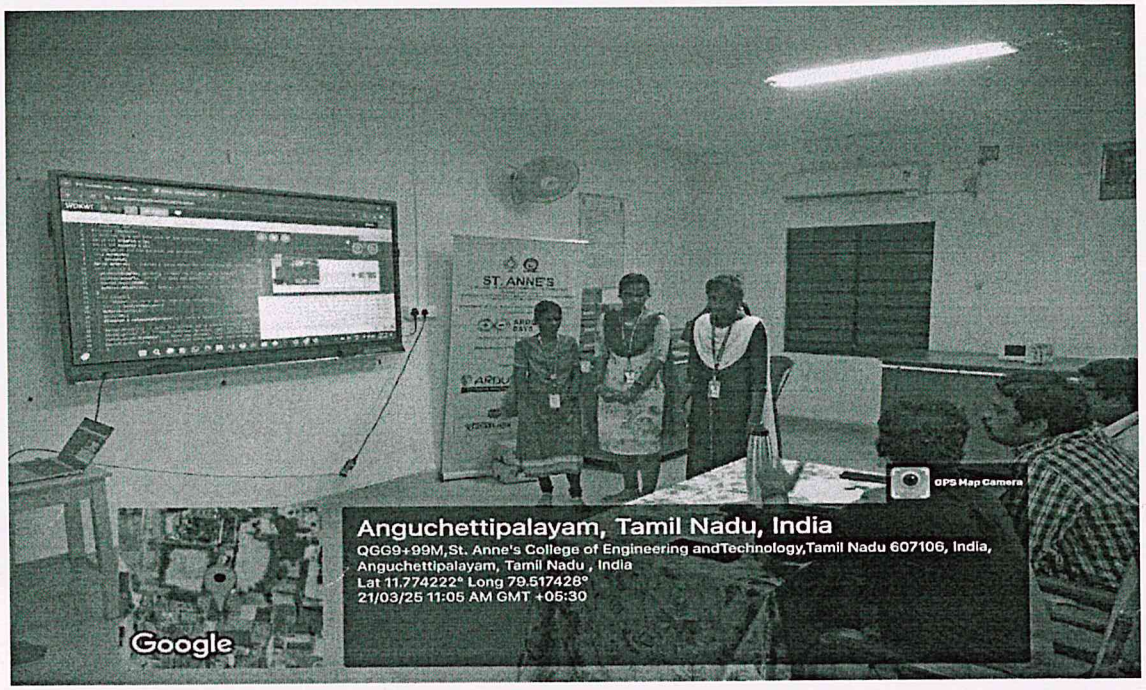

**Inaugural function**

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

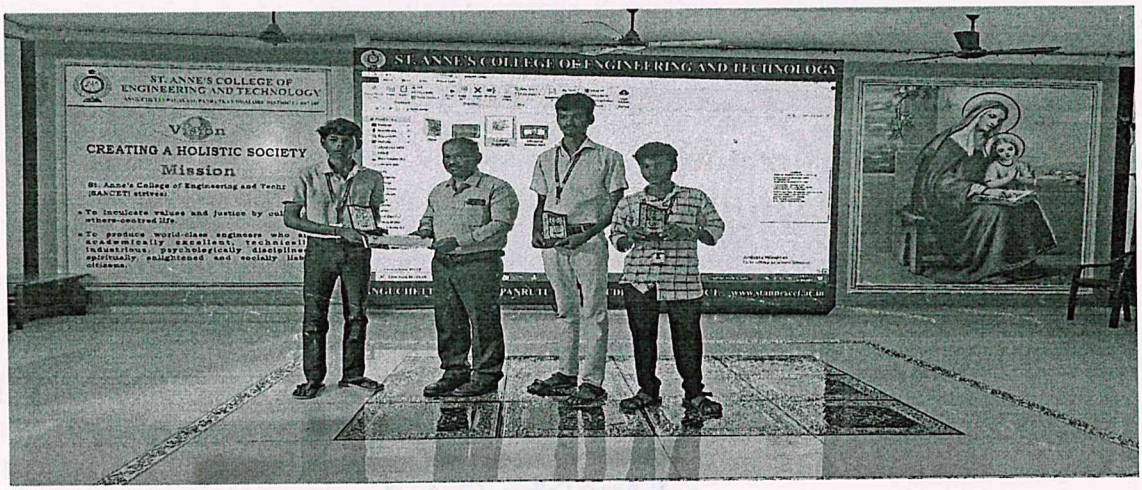
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**Chief Guest address**



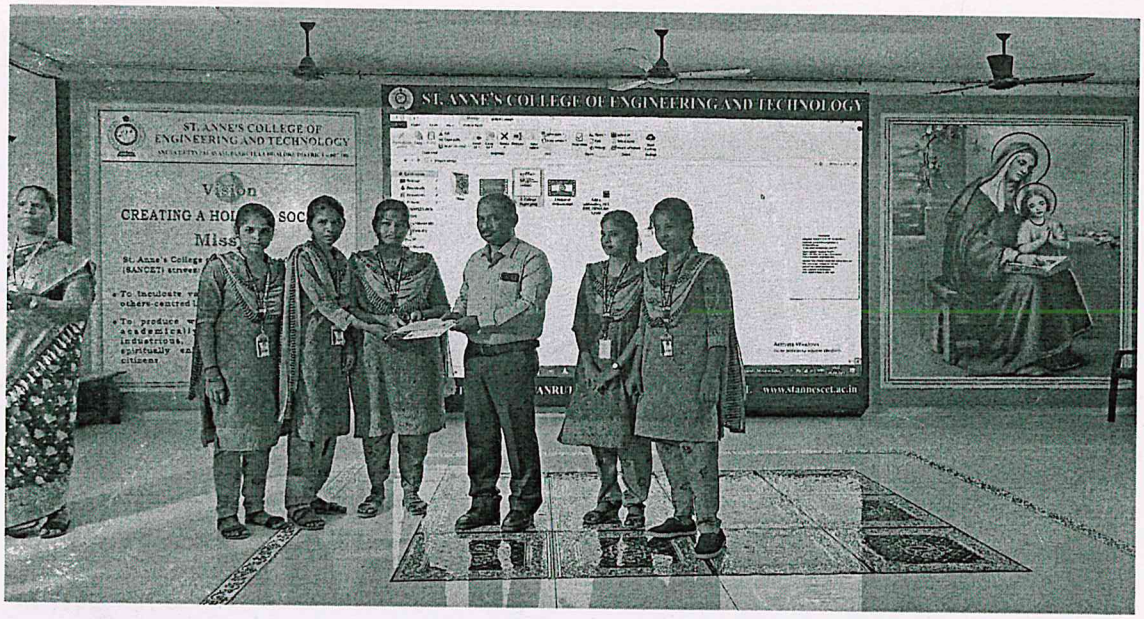

**Students actively Presenting their Project**



**First Prize**




**Second Prize**




**Third Prize**

**Outcomes:**

- Students from second, third, final year have presented their projects.
- The Project contest acts as platform to showcase their talents.
- It would help the students to exhibit their skills and project their ideas with peers and also with the industry experts.
- The contest would help the students to understand the need for implementing quality projects to excel in their professional career.
- Students will get motivated and it would help in enhancing their subject knowledge.

24/3/25

**EVENT COORDINATOR**

24/3/2025

**HoD**

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

24/3/25

**PRINCIPAL**

Dr.R.AROKIADASS, M.E., Ph.D
Principal,
St.Anne's College of Engineering & Technolo
ANGUCHETTYPALAYAM.
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

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# SMART INDIA HACKATHON 2024

# ST. ANNE'S
## COLLEGE OF ENGINEERING AND TECHNOLOGY
(A unit of the Sisters of St. Anne, Trichy)
Accredited by NAAC, Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai
Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106




Date: 27/08/2024

To: Whom so it May Concern:

**Sub: Smart India Hackathon 2024 – Appointment of College SPOC**

This is to inform that the following Principal/ Dean/ official/ faculty member from our institute has been appointed as College Single Point of Contact (College SPOC) for Smart India Hackathon 2024.

**Name of Official:** Dr. S. Anita
**Designation:** Professor
**Mobile no:** 8668083982
**Email id:** sranitaa@stannescet.ac.in

We understand that the SPOC will be:

- Single Point of Contact to reach out to regarding any SIH2024 - related communication to the institute/ student teams from SIH organizers.
- SPOC will be responsible for nominating the top 30 teams - 25 Shortlisted and 05 Waitlist teams inclusive of both software and hardware.

St. Anne's College of Engineering & Technology
27 AUG 2024
PANRUTI

Sincerely,

R. Arokiadass 27.8.24

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

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**Accredited by NAAC**
**ANGUCHETTYPALAYAM, PANRUTI – 607 106.**

# SMART INDIA HACKATHON (SIH) – 2024

## INTERNAL HACKATHON

| Evaluation Criteria | Description | Weightage (marks) |
|---|---|---|
| **1. Problem Identification** | | **20** |
| - Clarity of Problem Statement | Is the problem clearly defined and well understood? | 10 |
| - Relevance | How relevant is the problem to current needs or challenges? | 10 |
| **2. Solution Proposal** | | **30** |
| - Innovation | Is the proposed solution innovative and original? | 15 |
| - Feasibility | How feasible is the solution in terms of technical implementation, cost, and time? | 15 |
| **3. Technical Implementation** | | **30** |
| - Technical Complexity | Does the solution demonstrate a good level of technical complexity and sophistication? | 15 |
| - Implementation Plan | Is there a clear plan for implementing the solution, including tools, technologies, and resources needed? | 15 |
| **4. Presentation Quality** | | **20** |
| - Clarity and Structure | Is the presentation well-organized and clearly delivered? | 10 |
| - Engagement | How effectively does the team engage the audience and address questions? | 5 |
| - Visual Aids | Are the visual aids (slides, prototypes, etc.) clear and professional? | 5 |

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Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106




Date: 18/09/2024

**Sub: Smart India Hackathon 2024 – Nomination**

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**.

Our college's AICTE Application No is 1-36229116166.

**Team:** MIRACLE WORKERS

| | Name | Gender (M/F) | Email id | Mobile No. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | GOPINATH V MBC | M | vgopi5796@gmail.com | 9042223503 | ECE | IV |
| Team Member | SENTHAMIZH NILA V SC | F | ammunila2023@gmail.com | 9597425627 | ECE | IV |
| Team Member | SRIHARI K SC | M | sriharikssriharik53@gmail.com | 93633 87911 | ECE | IV |
| Team Member | INBARAJ D SC | M | inbaraj8111063920@gmail.com | 8111063920 | ECE | IV |
| Team Member | SASIREKA M MBC | F | sasisasikee@gmail.com | 7373586881 | ECE | III |
| Team Member | SWEETY PORCIA V SC | F | sweetyvanathaiyan@gmail.com | 8838948926 | ECE | II |

Sincerely,

20/9/24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., P.
Principal,
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**Team :** < CORBON CRUSHERS>

| | Name | Gender (M/F) | Email id | Mobile no. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | DENIS S MBC | M | denissathiban@gmail.com | 9361372966 | EEE | IV |
| Team Member | GNANARAJ S BC | M | ganaraj03raina@gmail.com | 9360721024 | EEE | IV |
| Team Member | JEGATHESWARI A MBC | F | jegatheswari2003@gmail.com | 6385511360 | EEE | IV |
| Team Member | JANA M SC | M | janasam023@gmail.com | 9080404831 | EEE | IV |
| Team Member | SANTHOSH P MBC | M | santhosh7639109936@gmail.com | 6382733140 | EEE | IV |
| Team Member | ABINAYA P SC | F | ayanajith54@gmail.com | 6383958296 | EEE | III |

Sincerely,

R. Arokiadass 20/9/24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., Ph.D.
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**Team :** < SOIL SQUAD>

| | Name | Gender (M/F) | Email id | Mobile no. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | ADHARAI V MBC | F | adhiraiv335@gmail.com | 6374191171 | EEE | IV |
| Team Member | ASRAF ALI A BC | M | hajimohammedmohammed18@gmail.com | 6384788120 | EEE | IV |
| Team Member | JAGANATHAN S MBC | M | mailmejagan14@gmail.com | 8668150905 | EEE | IV |
| Team Member | VINOTH M MBC | M | vvinothm231@gmail.com | 8189936467 | EEE | IV |
| Team Member | MICHEAL AASIC B MBC | M | aasic111aa1@gmail.com | 9790593307 | EEE | IV |
| Team Member | JENIFER DENCY I BC | F | jenidencym@gmail.com | 6374092441 | EEE | III |

Sincerely,

20/9/24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., Ph.D.,
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**Team :** < FUTURE FUSION >

| | Name | Gender (M/F) | Email id | Mobile no. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | MEGHARJUIN S BC | M | arjun2603.s@gmail.com | 9361413318 | EEE | IV |
| Team Member | UMAR BIN HUSSAIN M BC | M | umarbinhussain1995@gmail.com | 8940340309 | EEE | IV |
| Team Member | MOHAMED IRFAN M I BC | M | mohamedirfan1766@gmail.com | 8270889529 | EEE | IV |
| Team Member | PRAVEEN KUMAR R MBC | M | praveenapple16@gamil.com | 6383918344 | EEE | IV |
| Team Member | ABITHA A MBC | F | abiayyanar297@gmail.com | 9342741915 | EEE | IV |
| Team Member | PRAVEENA P SC | F | pravirenu8@gmail.com | 8072020386 | EEE | III |

Sincerely,

20.9.24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., Ph.D.,
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**Team :** < RULE BRAKERS >

| | Name | Gender (M/F) | Email id | Mobile no. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | MOHANRAJ K MBC | M | mohanrajmohanraj1227@gmail.com | 9786816096 | EEE | IV |
| Team Member | UDHAYALAKSHMI T MBC | F | udhayathamiz@gmail.com | 6385355650 | EEE | IV |
| Team Member | HARIHARAN V SC | M | hariharan.v2303@gmail.com | 6381646373 | EEE | IV |
| Team Member | NIJANTH KUMAR D SC | M | nijanthkumar28@gmail.com | 9344219728 | EEE | IV |
| Team Member | PRAVEEN N SC | M | praveennpraveen0103@gmail.com | 9043011426 | EEE | IV |
| Team Member | HARISH S BC | M | hh5962997@gmail.com | 7904442378 | EEE | III |

Sincerely,

20/9/24

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Our college's AICTE Application No is 1-36229116166.

**Team:** CROPEYES

| | Name | Gender (M/F) | Email id | Mobile No. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | SANJAI S | M | sanjaisenthilkumar004@gmail.com | 9629593206 | ECE | IV |
| Team Member | DURAIMURUGAN A | M | duraiarjunan2002@gmail.com | 8754699061 | ECE | IV |
| Team Member | MOHANA P | F | p.mohana1432@gmail.com | 9025435346 | ECE | IV |
| Team Member | RAGUNATH A | M | nragu1965@gmail.com | 6374504760 | ECE | IV |
| Team Member | SUJITHA K | F | suji73693@gmail.com | 8148778252 | ECE | III |
| Team Member | KAMALINISHA.S.M | F | sujithkamali44@gmail.com | 9489380318 | ECE | II |

Sincerely,

18/9/24

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Our college's AICTE Application No is 1-36229116166.

**Team:** Achievers

| | Name | Gender (M/F) | Email id | Mobile No. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | VISWANATH N | M MBC | viswanagendran2002@gmail.com | 9361131203 | ECE | IV |
| Team Member | RAJAMOHAN P | M MBC | rajmohanjanaki31@gmail.com | 8489204784 | ECE | IV |
| Team Member | MANGALESHWAR U | M MBC | mangaleshmangalesh830@gmail.com | 9123528559 | ECE | IV |
| Team Member | VAISHALI S | F MBC | swethamano2006@gmail.com | 7538815277 | ECE | IV |
| Team Member | MAHALAKSHMI R | F MBC | rmaha7224@gmail.com | 9025766048 | ECE | III |
| Team Member | SIVARANJANI K | F SC | ranjanisivatech2023@gmail.com | 8838726681 | ECE | II |

Sincerely,

18/9/24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
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**Team:** FOOD EPICUR

| | Name | Gender (M/F) | Email id | Mobile No. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | SHEIK MOHAMED S | M | sheikmohamed0046@gmail.com | 7708182774 | CSE | III |
| Team Member | MOHMAED ASHARAF Z | M | mdasharafias2004@gmail.com | 6380233007 | CSE | III |
| Team Member | SURIYA R | M | suriyaravi0710@gmail.com | 9578724516 | CSE | III |
| Team Member | LAKSHMI B | F | lakshmibalu2212@gmail.com | 8248316689 | CSE | III |
| Team Member | POOVIZHI K | F | popoovi6@gmail.com | 9360470267 | CSE | III |
| Team Member | CHARUMATHI R | F | mathicharu13128@gmail.com | 7418452644 | CSE | III |

Sincerely,

18.9.24

Dr. R. Arokiadass
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**Team:** BOTSAGE

| | Name | Gender (M/F) | Email id | Mobile No. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | VIJAYALAKSHMI S | F | viji03102004@gmail.com | 9360732794 | CSE | IV |
| Team Member | SUNIL KUMAR S | M | sunils66059@gmail.com | 6383990952 | CSE | IV |
| Team Member | MUHAMMADANAS S | M | mda23032004@gmail.com | 8220643258 | CSE | IV |
| Team Member | KANIHA M | F | kanihakaniha3@gmail.com | 8825759087 | CSE | IV |
| Team Member | ABINAYA M | F | abimm1902@gmail.com | 7540062410 | CSE | IV |
| Team Member | KARTHIKA A | F | akarthika1025@gmail.com | 9600646917 | CSE | IV |

Sincerely,

18.9.24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
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**Team:** QUANTUM CODE BRAKERS

| | Name | Gender (M/F) | Email id | Mobile No. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | ABDUL WAHAB A | M | aw07102006@gmail.com | 7604819130 | CSE | II |
| Team Member | SANTHOSHKUMAR M | M | santhoshmass252@gmail.com | 8807217210 | CSE (AIML) | II |
| Team Member | MUKESH M | M | mukeshmuthu63@gmail.com | 6369871765 | CSE | II |
| Team Member | GIRIDHARAN R | M | alonedharan54@gmail.com | 6369566698 | CSE | II |
| Team Member | PRATHAP M | M | thejat499@gmail.com | 7604974042 | CSE | II |
| Team Member | LOGESHWARI S | F | srinivasan9362@gmail.com | 9597130407 | CSE | II |

Sincerely,

18.9.24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
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**Team:** PROTECTED VOTES TEAM

| | Name | Gender (M/F) | Email id | Mobile No. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | VIDHYA.K | F | vidkvino@gmail.com | 7639607954 | CSE | IV |
| Team Member | SUSHMITHA.A | F | asushmitha63@gmail.com | 9150783912 | CSE | IV |
| Team Member | ASHIKA.S | F | monicasathish651@gmail.com | 8825859585 | CSE | IV |
| Team Member | RAJKUMAR K | M | kumar2004rajkumar@gmail.com | 7904163396 | CSE | IV |
| Team Member | VASANTHAKUMAR V | M | vasanthakumarv2004@gmail.com | 9840134957 | CSE | IV |
| Team Member | JEYORGIS ALISTON B | M | aliston.j24@gmail.com | 8220392373 | CSE | IV |

Sincerely,

18.9.24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., Ph.D.,
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**Team:** INNOVATION WAREHOUSE

| | Name | Gender (M/F) | Email id | Mobile No. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | ISHWARYA M | F | ishwaryarajeswari1@gmail.com | 9342487651 | CSE | IV |
| Team Member | SARGUNADEVI C | F | sanasarguna315@gmail.com | 8610705564 | CSE | IV |
| Team Member | AGNES MARIA M | F | agnesmaria.528@gmail.com | 9791622145 | CSE | IV |
| Team Member | PIOSHALBI.A | F | pioarul0912@gmail.com | 8870449029 | CSE | IV |
| Team Member | SATHISHKUMAR.R | M | rsathishkumar621@gmail.com | 6381857388 | CSE | IV |
| Team Member | ROSHAN WILLSON V | M | roshanwillson@gmail.com | 8248767739 | CSE | IV |

Sincerely,

18.9.24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
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**Team:** AKAT SUKI

| | Name | Gender (M/F) | Emailid | MobileNo. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | MANIBARATHI. P | M | manibarathi995253@gmail.com | 9677535946 | MECH | III |
| Team Member | ARUL.T | M | aarul26051@gmail.com | 8015295226 | MECH | III |
| Team Member | MOHAMMEDISMAIL.S | M | ajmalsherif2000@gmail.com | 7339683596 | MECH | III |
| Team Member | SARANRAJ.S | M | saranuchiha09@gmail.com | 6369550885 | MECH | III |
| Team Member | IYYAPPAN.R | M | jpro0395@gmail.com | 6374267391 | MECH | III |
| Team Member | TAMILSELVAN.D | M | vinothvikram5594@gmail.com | 9360194180 | MECH | III |

Sincerely,

20/9/24

Dr. R. Arokiadass
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**Team:** MECH BOT

| | Name | Gender (M/F) | Emailid | MobileNo. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | PREM KUMAR.G | M | gokulraj15951@gmail.com | 6374656104 | MECH | IV |
| Team Member | MELWIN.R | M | melwinraja1619@gmail.com | 7395881619 | MECH | IV |
| Team Member | AHAMED ASHIF.S | M | ahamedashif543@gmail.com | 9524743759 | MECH | IV |
| Team Member | KATHIRAVAN.M | M | kathiravan.16dme@gmail.com | 6369967207 | MECH | IV |
| Team Member | KAVIARASAN. K | M | kavikaviarasan081@gmail.com | 9629485163 | MECH | IV |
| Team Member | BALA. P | M | balapbala17@gmail.com | 7904813219 | MECH | III |

Sincerely,

20/9/24

Dr. R. Arokiadass
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**Team:** MECH MARVELS

| | Name | Gender (M/F) | Emailid | MobileNo. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | DESIGAN R | M | ddesigan66@gmail.com | 9150541865 | MECH | IV |
| Team Member | ADHAVAN .R | M | radhavan07@gmail.com | 8838175200 | MECH | IV |
| Team Member | IGNO CROSSLY M | M | mignocrossly554@gmail.com | 9363274669 | MECH | IV |
| Team Member | AGAZHIAN M | M | aagazhiyan@gmail.com | 9626407609 | MECH | IV |
| Team Member | NAGALINGAM K | M | nagalingamk2004@gmail.com | 9843877714 | MECH | IV |
| Team Member | KABILAN.R | M | kabilan827050@gmail.com | 8270509648 | MECH | III |

Sincerely,

20/9/24

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# ST. ANNE'S
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(A unit of the Sisters of St. Anne, Trichy)
Accredited by NAAC, Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai
Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106




Date: 20/09/2024

**Sub: Smart India Hackathon 2024 – Nomination**

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**. Our college's AICTE Application No is 1-36229116166.

**Team:** TECH CONQUEROS

| | Name | Gender (M/F) | Emailid | MobileNo. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | VELPANDIYAN D | M | Velpandiyan2003@gmail.com | 6374693715 | MECH | IV |
| Team Member | VISHWA R | M | vishwarajalingam@gmail.com | 9659580804 | MECH | IV |
| Team Member | BHARATH P | M | bharath200311@gmail.com | 9597016158 | MECH | IV |
| Team Member | VISHNURAJ T | M | sr1546524@gmail.com | 8220836341 | MECH | IV |
| Team Member | KAVIPRASATH M | M | kavidhoni388@gmail.com | 6383065401 | MECH | IV |
| Team Member | DARVIN .C | M | devildarvidevildarvi@gmail.com | 9597475246 | MECH | III |

Sincerely,

20/9/24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

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Date: 20/09/2024

**Sub: Smart India Hackathon 2024 – Nomination**

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**. Our college's AICTE Application No is 1-36229116166.

**Team:** MECH ELITE

| | Name | Gender (M/F) | Emailid | MobileNo. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | MUTHAZHAGAN N | M | muthunarayanan08@gmail.com | 8667863470 | MECH | II |
| Team Member | VIGNESH S | M | vicky2592004@gmail.com | 8111051684 | MECH | II |
| Team Member | SARAVANAN M | M | saravananmuthuvel2005@gmail.com | 7812876169 | MECH | II |
| Team Member | ARAVIND A | M | aravindarumugam110@gmail.com | 6384113971 | MECH | II |
| Team Member | AJANTHAN S | M | ajanthansivakumar58@gmail.com | 6374267391 | MECH | II |
| Team Member | ADHIMANI A | M | adhimani651@gmail.com | 6385547523 | MECH | II |

Sincerely,

20/9/24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., Ph.D.
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Date: 18/09/2024

**Sub: Smart India Hackathon 2024 – Nomination**

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**.

Our college's AICTE Application No is 1-36229116166.

**Team:** CROPEYES

| | Name | Gender (M/F) | Email id | Mobile No. | Stream | Academic Year |
|---|---|---|---|---|---|---|
| Team Leader | SANJAI S | M | sanjaisenthilkumar004@gmail.com | 9629593206 | ECE | IV |
| Team Member | DURAIMURUGAN A | M | duraiarjunan2002@gmail.com | 8754699061 | ECE | IV |
| Team Member | MOHANA P | F | p.mohana1432@gmail.com | 9025435346 | ECE | IV |
| Team Member | RAGUNATH A | M | nragu1965@gmail.com | 6374504760 | ECE | IV |
| Team Member | SUJITHA K | F | suji73693@gmail.com | 8148778252 | ECE | III |
| Team Member | KAMALINISHA.S.M | F | sujithkamali44@gmail.com | 9489380318 | ECE | II |

Sincerely,

18/9/24

Dr. R. Arokiadass, M.E., Ph.D
Principal
St.Anne's College of Engineering & Technology
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Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 11

Dr. R. Arokiadass,

CSE/ROUND

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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Accredited by NAAC
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

## SMART INDIA HACKATHON (SIH) – 2024

### INTERNAL HACKATHON (Evaluation Sheet)

| S.No. | PS NUMBER | TEAM MEMBERS | Problem Identification (20) | | Solution Proposal (30) | | Technical Implementation (30) | | Presentation Quality (20) | | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Clarity of Problem Statement | Relevance | Innovation | Feasibility | Technical Complexity | Implementation Plan | Clarity and Structure | Engagement | Visual Aids | |
| | | | 10 | 10 | 15 | 15 | 15 | 15 | 10 | 5 | 5 | 100 |
| 1. | 1644 | Sathiskumaar.R<br>Vasanthakumaar<br>Chandrakumaar<br>Jerisha.L<br>Jeeva.A<br>Nathiya.D | 7 | 4 | 6 | 6 | 6 | 4 | 4 | 4 | 3 | 44 |
| 2. | 1625 | Ishwarya.M<br>Agneshwara.M<br>Pooshalbi.A<br>Thamaraiselvan<br>Sargunadevi.C | 8 | 6 | 7 | 7 | 7 | 5 | 6 | 4 | 4 | 54 |
| 3. | 1615 | Kanika.M<br>Pavithra.B<br>Suvatha.D.N<br>Vishnupriya.V<br>Geetha.R<br>Abilash.I | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 3 | 3 | 55 |

PS: PROBLEM STATEMENT

Jury Member

HOD

SIH SPOC

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

19/9/24

Principal
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM

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| | | | Clarity of Problem Statement | Relevance | Innovation | Feasibility | Technical Complexity | Implementation Plan | Clarity and Structure | Engagement | Visual Aids | |
| | | | 10 | 10 | 15 | 15 | 15 | 15 | 10 | 5 | 5 | 100 |
| 4. | 1540 | Abinaya. M<br>Kamaldeen R.<br>Sarmesh. S<br>Kaviyarasan. V<br>Arumpandi. R<br>Karthika. A | 7 | 7 | 8 | 6 | 7 | 7 | 8 | 4 | 3 | 57 |
| 5 | 1604 | Vijiyalakshmi S<br>Sunilkumar. S<br>Shanmugapriya<br>Ragavinothini<br>Rabika.<br>Mohamed Anas | 8 | 8 | 10 | 8 | 8 | 7 | 8 | 4 | 4 | 65 |
| 6. | 1596 | Logitkkumar. A<br>Ashok Nameerkumar<br>Sujan.<br>Jagadeesh. V<br>Mohamed Ali. MA<br>Kaviyapriya. S | 8 | 6 | 6 | 6 | 7 | 7. | 6 | 4 | 4 | 54 |

PS: PROBLEM STATEMENT

Jury Member

HoD

Head of the Department
Department of Electronics and Communication Engineering
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Anguchettypalayam, Panruti (TK)

Principal

Dr. R. ABDULKADER, M.E., Ph.D.,
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| | | | Clarity of Problem Statement | Relevance | Innovation | Feasibility | Technical Complexity | Implementation Plan | Clarity and Structure | Engagement | Visual Aids | |
| | | | 10 | 10 | 15 | 15 | 15 | 15 | 10 | 5 | 5 | 100 |
| 7. | 1645 | Kaviya.S<br>Balamurugan.R<br>Kamaleshwaran.V<br>Bhaktasri.S<br>Vinoth.V<br>Jeyaraja Allen.R | 8 | 8 | 7 | 7 | 10 | 08 | 8 | 4 | 3 | 63 |
| (8) | 1589 | Vidhya.K<br>Udhayakumar.U<br>Sushmitha.A<br>Ashika.S<br>Gopinath<br>Asath.A | 9 | 9 | 8 | 8 | 12 | 08 | 9 | 4 | 4 | 71 |
| 9. | 1607 | Roshan Wilson.V<br>Rajkumar.K<br>Ramkumar.M<br>Susi.J<br>Vasanth.F<br>Jayasri.B. | 8 | 8 | 8 | 6 | 10 | 08 | 8 | 4 | 3 | 61 |

PS: PROBLEM STATEMENT

Jury Member

HoD

SPOC

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| | | | Clarity of Problem Statement | Relevance | Innovation | Feasibility | Technical Complexity | Implementation Plan | Clarity and Structure | Engagement | Visual Aids | |
| | | | 10 | 10 | 15 | 15 | 15 | 15 | 10 | 5 | 5 | 100 |
| 10 | 1600 | Sheik Mohamed S<br>Mohamed Ashraf Z<br>Suriya. R<br>Chammathi R<br>Poovizhi. K<br>Lakshmi. B | 10 | 07 | 10 | 10 | 10 | 10 | 07 | 5 | 05 | 74 |
| 11. | | Charumathi. R<br>Poovizhi K<br>Lakshmi. B<br>Sheik Mohamed S<br>Mohamed Ashraf Z<br>Suriya. R | 05 | 05 | 08 | 10 | 10 | 10 | 05 | 05 | 05 | 63 |
| 12. | SIH 1608 | Abdul Wahab. A<br>Santhosh kumar. M<br>Mukesh. M<br>Logeshwari. S<br>Gnanadheepan R. | 10 | 07 | 10 | 10 | 05 | 10 | 05 | 05 | 05 | 67 |

PS: PROBLEM STATEMENT

Jury Member

HOD

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Principal,
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MECH

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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| | | | Clarity of Problem Statement | Relevance | Innovation | Feasibility | Technical Complexity | Implementation Plan | Clarity and Structure | Engagement | Visual Aids | |
| | | | 10 | 10 | 15 | 15 | 15 | 15 | 10 | 5 | 5 | 100 |
| 1. | SIH 1545 | 1. G. PREM KUMAR<br>2. R. MELWIN<br>3. S. AHAMED ASHIF | 10 | 10 | 10 | 15 | 5 | 10 | 10 | 5 | 5 | 75 |
| 2. | SIH 1573 | 1. R. DESIGAN<br>2. M. IGNO CROSSY<br>3. R. ADHAVAN | 10 | 10 | 10 | 5 | 15 | 10 | 10 | 5 | 5 | 80 |
| 3. | SIH 1535 | 1. V. AJAY<br>2. M. SATHIYA BALAN<br>3. K. GUNAL<br>4. HARI HARAN | 5 | 5 | 10 | 10 | 10 | 5 | 5 | 2 | 3 | 55 |
| 4. | SIH 1576 | 1. N. MUTHAZHAGAN<br>2. A. ADHIMANI<br>3. A. AJANTHAN<br>4. V. ARAVINDHAN | 10 | 10 | 15 | 15 | 5 | 10 | 5 | 5 | 5 | 90 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5. | SIH 1532 | 1. S. AKASH<br>2. HARI KRISHNA KUMAR<br>3. V. CHANDRU<br>4. A. ABISHEK | 5 | 5 | 10 | 10 | 10 | 0 | 5 | 2 | 3 | 50 |
| 6. | SIH 1535 | 1. S. PANJAMOORTHY<br>2. T. VEERAPANDI<br>3. V. TONY FICELSYNTHIA<br>4. A. RAJESH<br>5. T. DHIVAKAR | 5 | 5 | 0 | 10 | 5 | 5 | 5 | 2 | 3 | 40 |
| 7. | SIH 1575 | 1. P. MANI BARATHI<br>2. T. ARUL<br>3. MOH. ISMAIL<br>4. S. SARAN RAJ | 10 | 10 | 10 | 0 | 15 | 5 | 10 | 5 | 5 | 70 |
| 8. | SIH 1572 | 1. D. VELPANDIYAN<br>2. R. VISHWA<br>3. P. BHARATH | 5 | 5 | 10 | 10 | 15 | 4 | 10 | 2 | 3 | 64 |

PS: PROBLEM STATEMENT

1.

2. R. Sasi

Jury Member

1. Dr. D. OMMURUGADHASSAN

2. Dr. R. SASIKUMAR

K. Shanmugam 18/9/24

HoD

SIH SPOC 19/9/2024

Head of the Department
Department of Electronics and Communication Engineering
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Principal 19.9.24

Dr.R.AROKIADASS, M.E., Ph.D.,
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Cuddalore-(Dist), Pin: 607 110.

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**ANGUCHETTYPALAYAM, PANRUTI – 607 106.**

# SMART INDIA HACKATHON (SIH) – 2024

## INTERNAL HACKATHON (Evaluation Sheet)

| S.No. | PS NUMBER | TEAM MEMBERS | Problem Identification (20) | | Solution Proposal (30) | | Technical Implementation (20) | | Presentation Quality (20) | | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Clarity of Problem Statement | Relevance | Innovation | Feasibility | Technical Complexity | Implementation Plan | Clarity and Structure | Engagement | Visual Aids | |
| | | | 10 | 10 | 15 | 15 | 15 | 15 | 10 | 5 | 5 | 100 |
| 1 | SIH 1536 | ADHIRAI V<br>ASRAF ALI A<br>JAGANATHAN S<br>VINOTH M<br>MICHEAL AASIC B<br>JENIFER DENCY I | 10 | 10 | 12 | 12 | 10 | 10 | 10 | 0 | 2 | 76 |
| 2 | SIH1 1583 | MOHANRAJ K<br>UDHAYALAKSHMI T<br>HARIHARAN V<br>NIJANTH KUMAR D<br>PRAVEEN N<br>HARISH. S | 10 | 10 | 8 | 8 | 8 | 8 | 10 | 0 | 0 | 62 |

| S.No. | PS NUMBER | TEAM MEMBERS | Problem Identification (20) | | Solution Proposal (30) | | Technical Implementation (20) | | Presentation Quality (20) | | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Clarity of Problem Statement | Relevance | Innovation | Feasibility | Technical Complexity | Implementation Plan | Clarity and Structure | Engagement | Visual Aids | |
| | | | 10 | 10 | 15 | 15 | 15 | 15 | 10 | 5 | 5 | 100 |
| 3 | SIH 1542 | MEGHARJUN S<br>UMAR BIN HUSSAIN M<br>MOHAMED IRFAN M I<br>ABITHA A<br>PRAVEEN KUMAR R | 10 | 10 | 13 | 12 | 11 | 15 | 10 | 5 | 5 | 91 |
| 4 | SIH 1576 | DENIS S<br>GNANARAJ S<br>JEGATHESWARI A<br>JANA.M<br>SANTHOSH P<br>ABINAYA. P | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 56 |
| 5 | SIH 1554 | PREM S<br>PREMKUMAR S<br>VISHNUCHANDIRAN T<br>SURESHKUMAR S | 4 | 3 | 5 | 5 | 3 | 4 | 0 | 0 | 0 | 24 |
| 6 | SIH 1524 | SRIDHAR B<br>MANIVASAGAN M<br>ELUMALAI G<br>ABINAYA. S<br>SHIBAN. K | 5 | 5 | 4 | 4 | 5 | 5 | 2 | 0 | 0 | 30 |

| S.No. | PS NUMBER | TEAM MEMBERS | Problem Identification (20) | | Solution Proposal (30) | | Technical Implementation (20) | | Presentation Quality (20) | | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Clarity of Problem Statement | Relevance | Innovation | Feasibility | Technical Complexity | Implementation Plan | Clarity and Structure | Engagement | Visual Aids | |
| | | | 10 | 10 | 15 | 15 | 15 | 15 | 10 | 5 | 5 | 100 |
| 7 | SIH 1575 | SOWMIYA S<br>SUBASH B<br>SARANRAJ S<br>PRATHISH. K<br>SEETHAPATHI M<br>PRAVEENA. P | 5 | 5 | 5 | 4 | 4 | 5 | 0 | 0 | 0 | 28 |
| 8 | SIH 1545 | GOKULA KRISHNAN. R<br>SARAVANA VELU. B<br>VASANTHAKRISHNAN. V | 5 | 5 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 18 |
| 9 | SIH 1582 | ANTONY JOHNSON. M<br>PRAVEEN RAJ. T<br>SANJAY. N | 8 | 8 | 5 | 5 | 0 | 10 | 0 | 0 | 0 | 36 |

**PS: PROBLEM STATEMENT**

18/9/24

**Jury Member**

J. RAMESH
A.P/EEE

18/9/24

**HoD**

19/9/24

**SIH SPOC**

Head of the Department
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19.9.24

**Principal**

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Principal,
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ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k)
Cuddalore-(Dist), Pin: 607 110.

# REPORT ON INTERNAL SMART INDIA HACKATHON 2024

## ABOUT THE EVENT:

**Smart India Hackathon (SIH)** is a premier nationwide initiative designed to engage students in solving some of the most pressing challenges faced in everyday life. Launched to foster a culture of innovation and practical problem-solving, SIH provides a dynamic platform for students to develop and showcase their creative solutions to real-world problems. The hackathon aims to bridge the gap between academic knowledge and practical application by encouraging participants to think critically and innovatively.

## THEMES OF SIH 2024:

1. Agriculture, Food Tech & Rural Development
2. Blockchain & Cybersecurity
3. Clean & Green Technology
4. Fitness & Sports
5. Heritage & Culture
6. MedTech/BioTech./ HealthTech
7. Miscellaneous
8. Renewable/Sustainable Energy
9. Robotics and Drones
10. Smart Automation
11. Smart Vehicles
12. Travel & Tourism
13. Transportation & Logistics

14. Disaster Management

15. Smart Education

16. Toys & Games

17. Space Technology

18. Smart Resource Conservation

The St. Anne's College of Engineering and Technology (SANCET) Smart India Hackathon (Internal Hackathon) 2024 was held on September 19th, 2024 at the Research and Development Cell. The event was a day of innovation, creativity, and excitement. The event was open to all students, and a total of 37 teams participated; each with six members consisting of at least one female member.

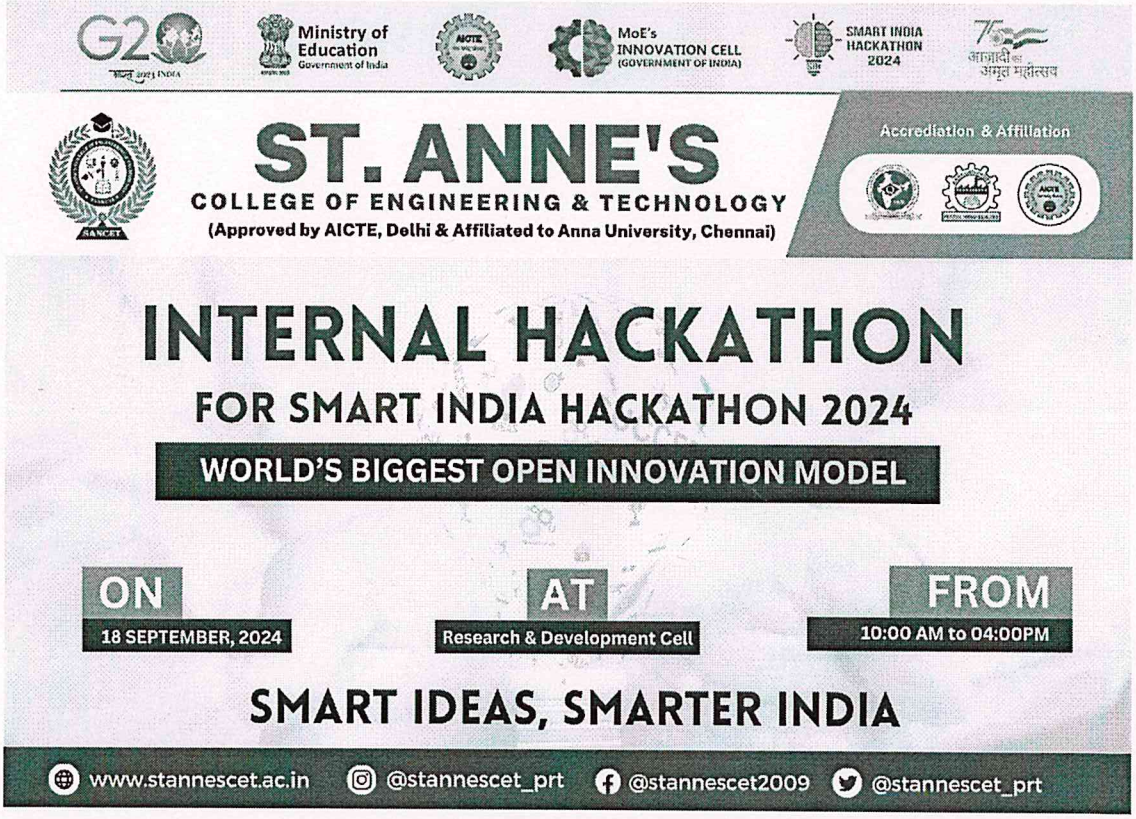
The SANCET SIH 2024 was organized with the following objectives:

- To enlighten the students with the challenges of Software and Hardware Edition.
- To scrutinize the solutions provided by team members for different problem statements listed by multiple organizations and Ministries of India.
- To help students understand the problem from different perspectives and to come up with a proper solution.
- To prepare the student teams for the national-level Smart India Hackathon 2024.

The hackathon was a great success. The students were enthusiastic and creative, and they came up with some innovative solutions to the problem statements. The judges were impressed with the solutions' quality and were confident that the students would be successful in the national-level hackathon.

The SANCET SIH 2024 was a valuable learning experience for the students. It helped them to develop their problem-solving skills, to work collaboratively, and to think creatively. The event also helped to foster a culture of innovation and entrepreneurship among the students.

**POSTER**

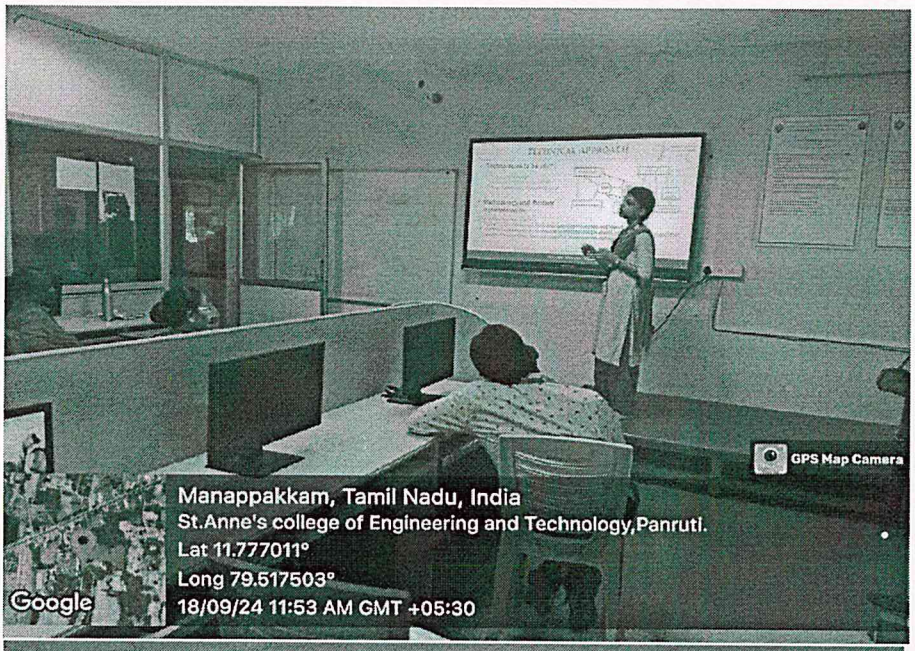


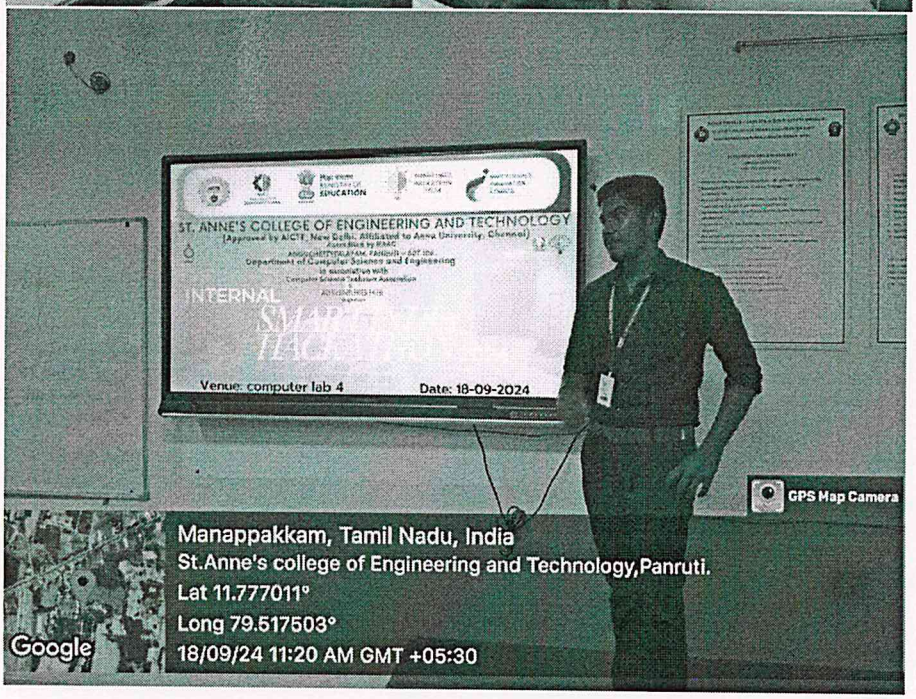

**PROBLEM STATEMENTS PRESENTED:**

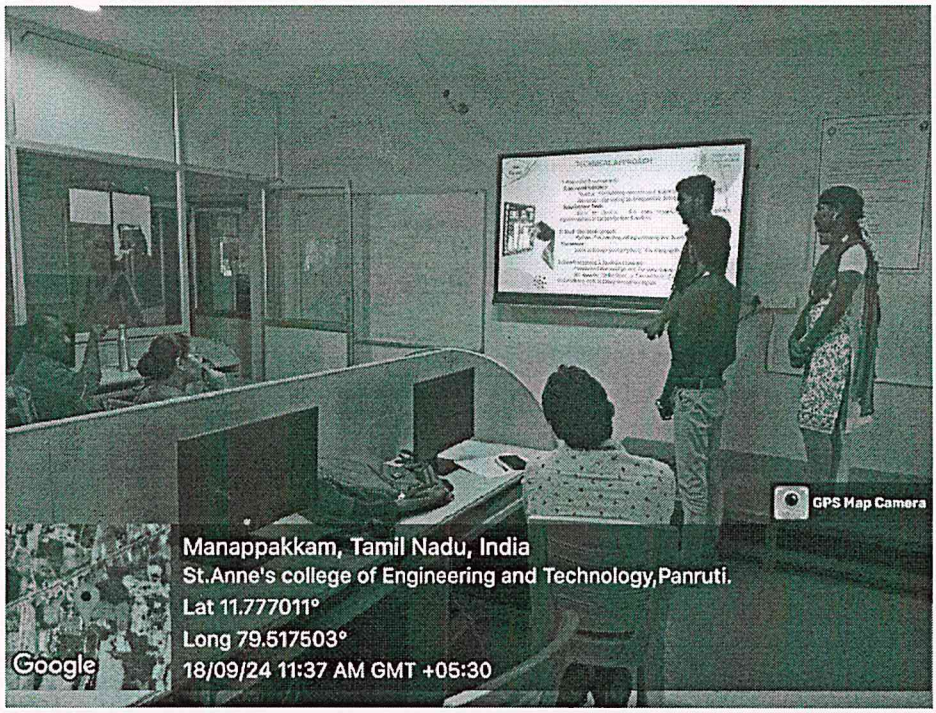
| S. No. | Problem Statement ID | Theme Name | Category |
|---|---|---|---|
| 1 | SIH1644 | Renewable / Sustainable Energy (1) | Software |
| 2 | SIH1625 | Smart Automation | Software |
| 3 | SIH1615 | Smart Education | Software |
| 4 | SIH1540 | Smart Automation | Hardware |
| 5 | SIH1604 | Smart Automation | Software |
| 6 | SIH1596 | Agriculture, Food Tech. & Rural Development | Software |
| 7 | SIH1645 | Smart Automation | Software |
| 8 | SIH1589 | Blockchain & Cybersecurity | Software |
| 9 | SIH1607 | Smart Automation | Software |
| 10 | SIH1600 | Smart Automation | Software |
| 11 | SIH1557 | Smart Automation | Software |
| 12 | SIH1608 | Smart Education | Software |
| 13 | SIH1545 | Renewable / Sustainable Energy -1 | Hardware |
| 14 | SIH1573 | Renewable / Sustainable Energy -3 | Hardware |
| 15 | SIH1535 | Smart Vehicles | Hardware |
| 16 | SIH1576 | Clean & Green Technology | Hardware |
| 17 | SIH1532 | Clean & Green Technology | Hardware |
| 18 | SIH1535 | Smart Vehicles | Hardware |
| 19 | SIH1575 | Clean & Green Technology | Hardware |
| 20 | SIH1572 | Renewable / Sustainable Energy -4 | Hardware |
| 21 | SIH1536 | Agriculture, FoodTech & Rural Development | Hardware |
| 22 | SIH1583 | Miscellaneous | Hardware |
| 23 | SIH1542 | Space Technology | Hardware |
| 24 | SIH1576 | Clean & Green Technology | Hardware |
| 25 | SIH1554 | Agriculture, FoodTech & Rural Development | Hardware |
| 26 | SIH1524 | Smart Resource Conservation | Hardware |
| 27 | SIH1575 | Clean & Green Technology | Hardware |

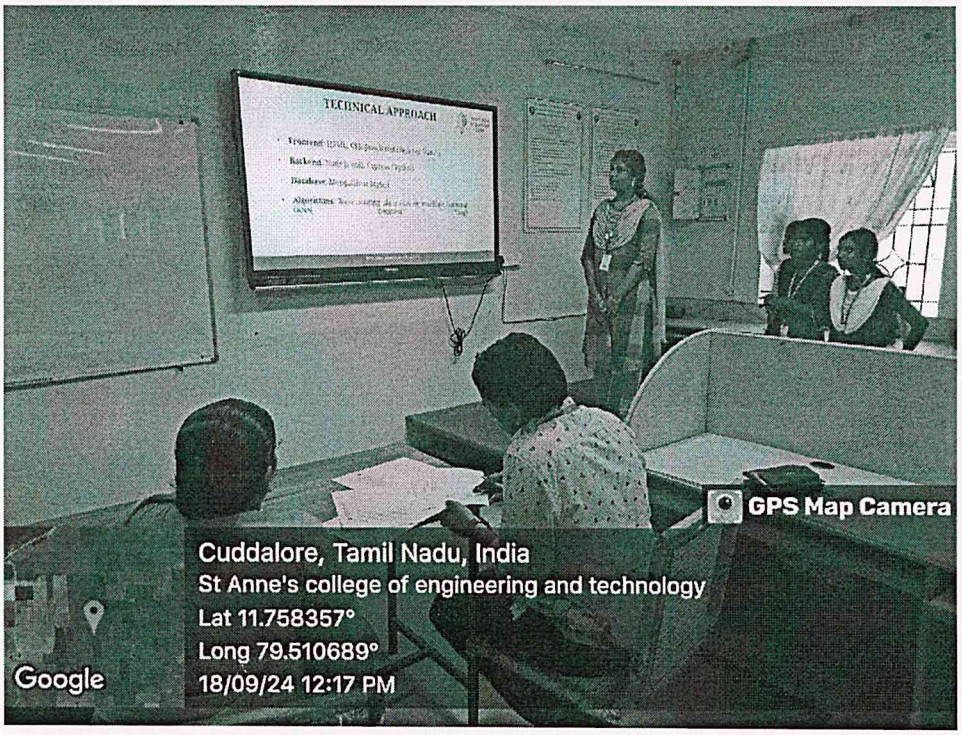
| | | | |
|---|---|---|---|
| 28 | SIH1545 | Renewable / Sustainable Energy | Hardware |
| 29 | SIH1582 | Miscellaneous | Hardware |
| 30 | SIH1639 | Agriculture, FoodTech & Rural Development | Software |
| 31 | SIH1545 | Renewable / Sustainable Energy | Hardware |
| 32 | SIH1536 | Agriculture, FoodTech & Rural Development | Hardware |
| 33 | SIH1638 | Agriculture, FoodTech & Rural Development | Software |
| 34 | SIH1554 | Agriculture, FoodTech & Rural Development | Hardware |
| 35 | SIH1536 | Agriculture, FoodTech & Rural Development | Hardware |
| 36 | SIH1537 | MedTech / BioTech / HealthTech | Hardware |
| 37 | SIH1530 | Renewable / Sustainable Energy | Hardware |

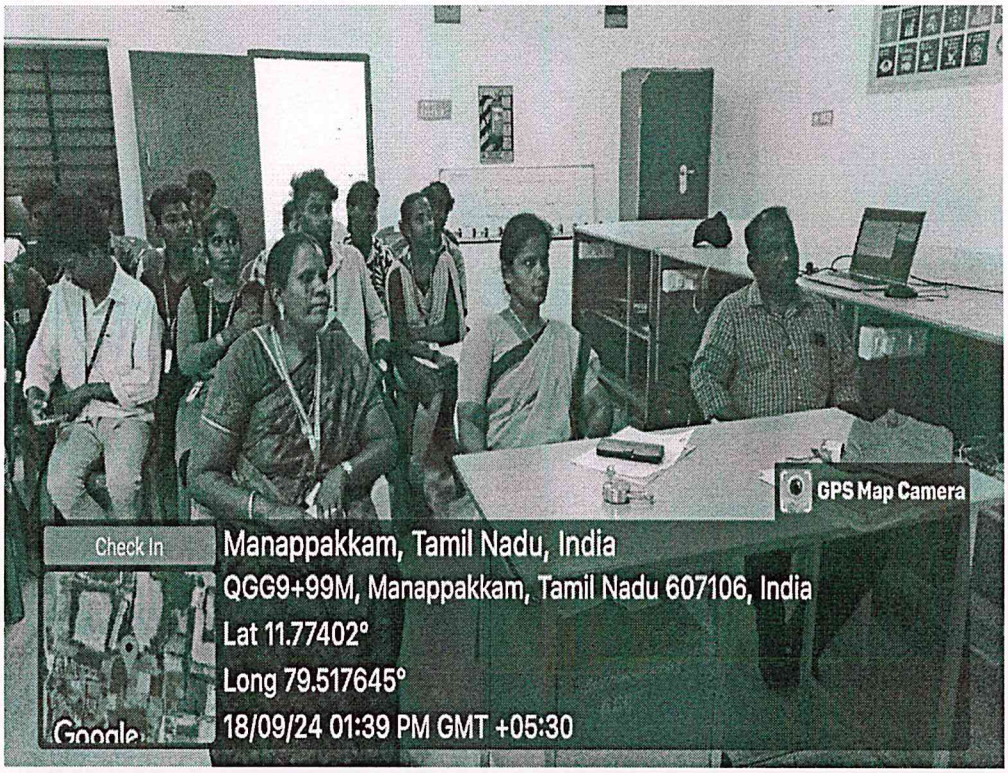
**EVENT PHOTOS**

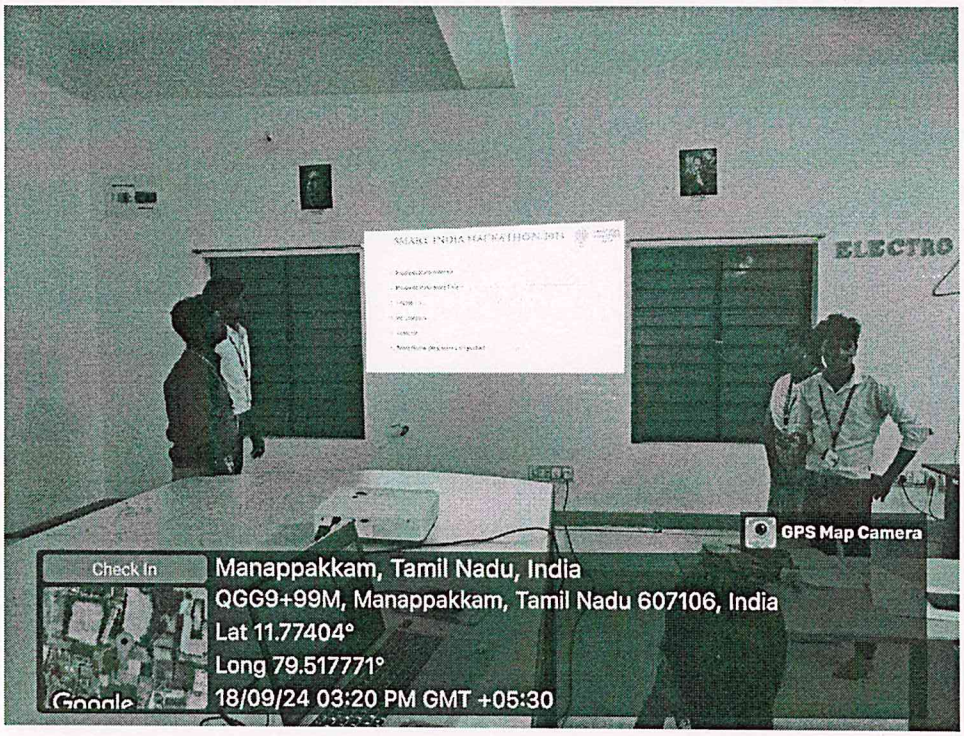


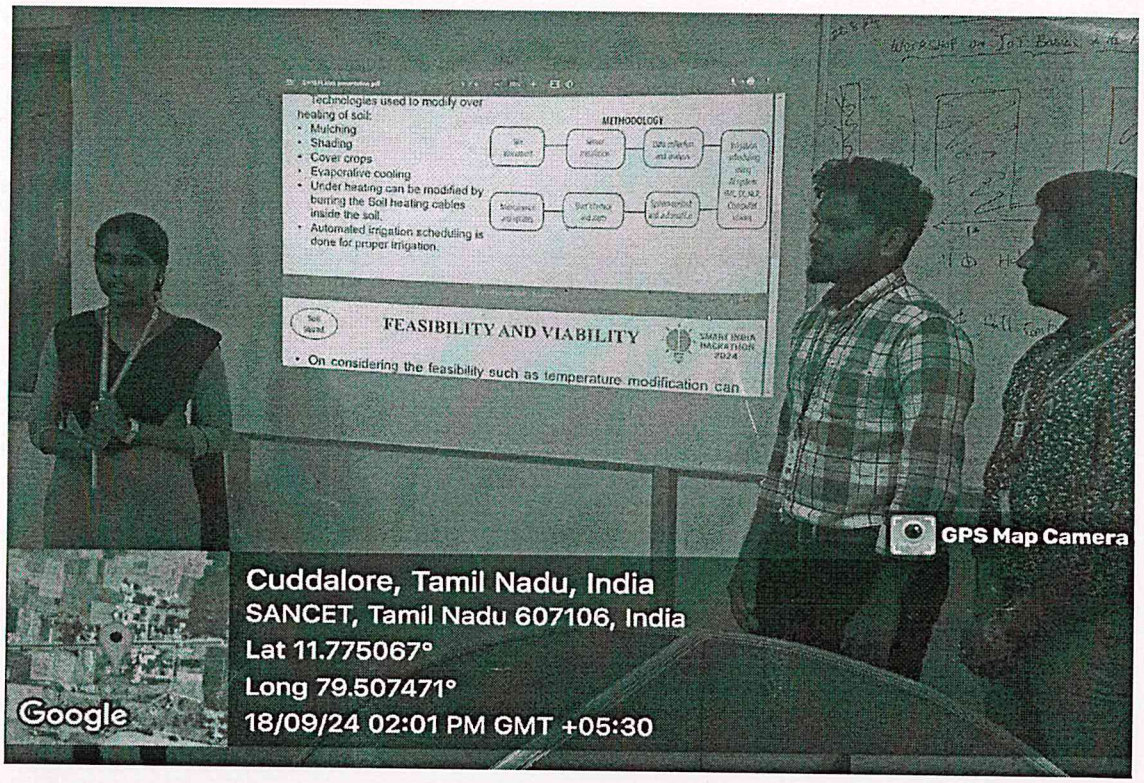



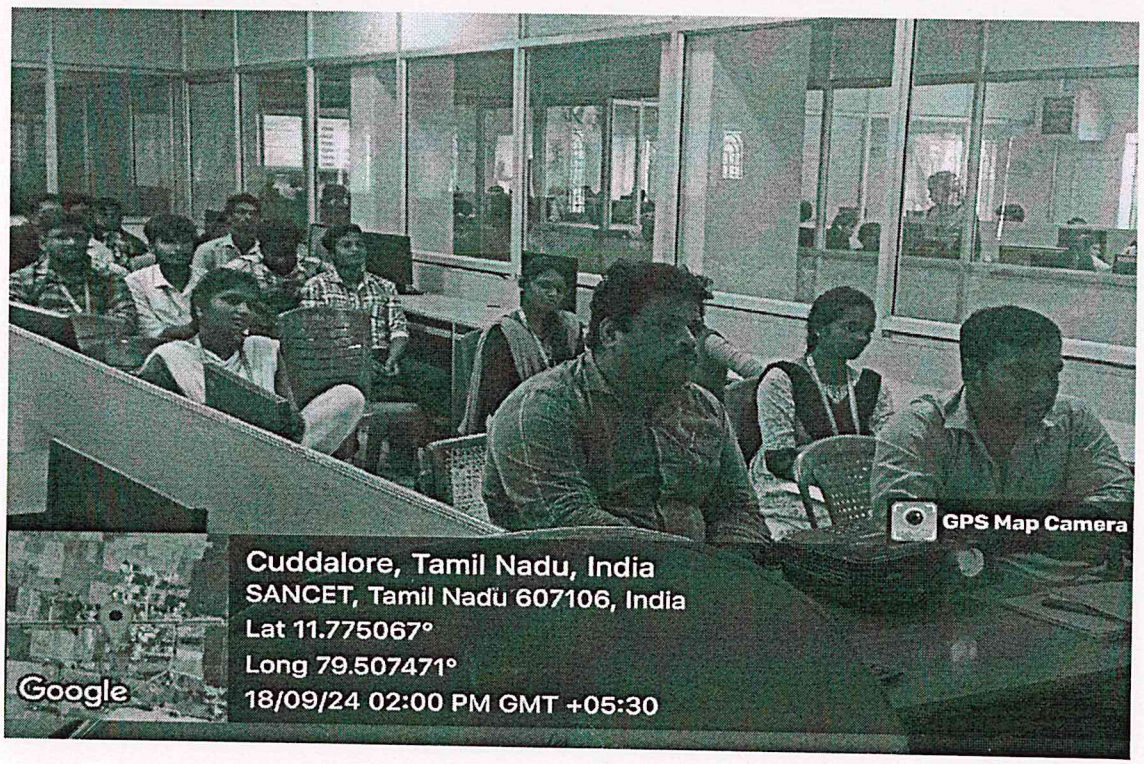

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Manappakkam, Tamil Nadu, India
St.Anne's college of Engineering and Technology,Panruti.
Lat 11.777011°
Long 79.517503°
18/09/24 11:37 AM GMT +05:30
Google

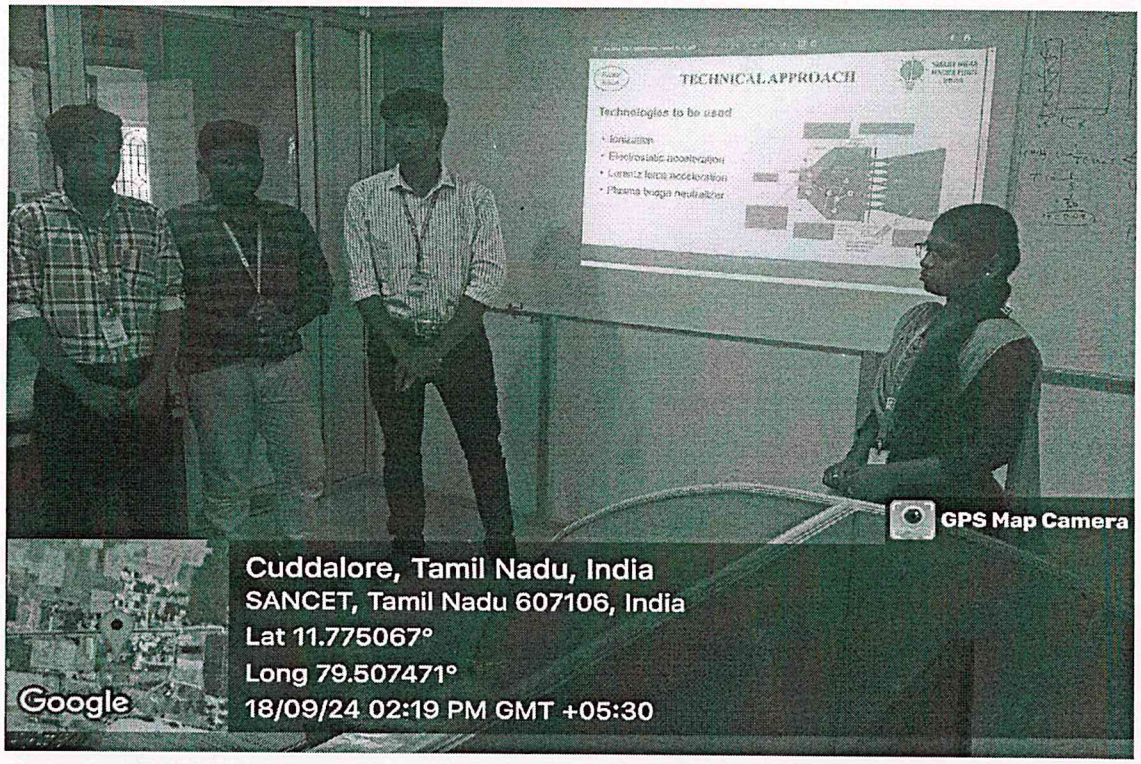

TECHNICAL APPROACH
GPS Map Camera
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St Anne's college of engineering and technology
Lat 11.758357°
Long 79.510689°
18/09/24 12:17 PM
Google

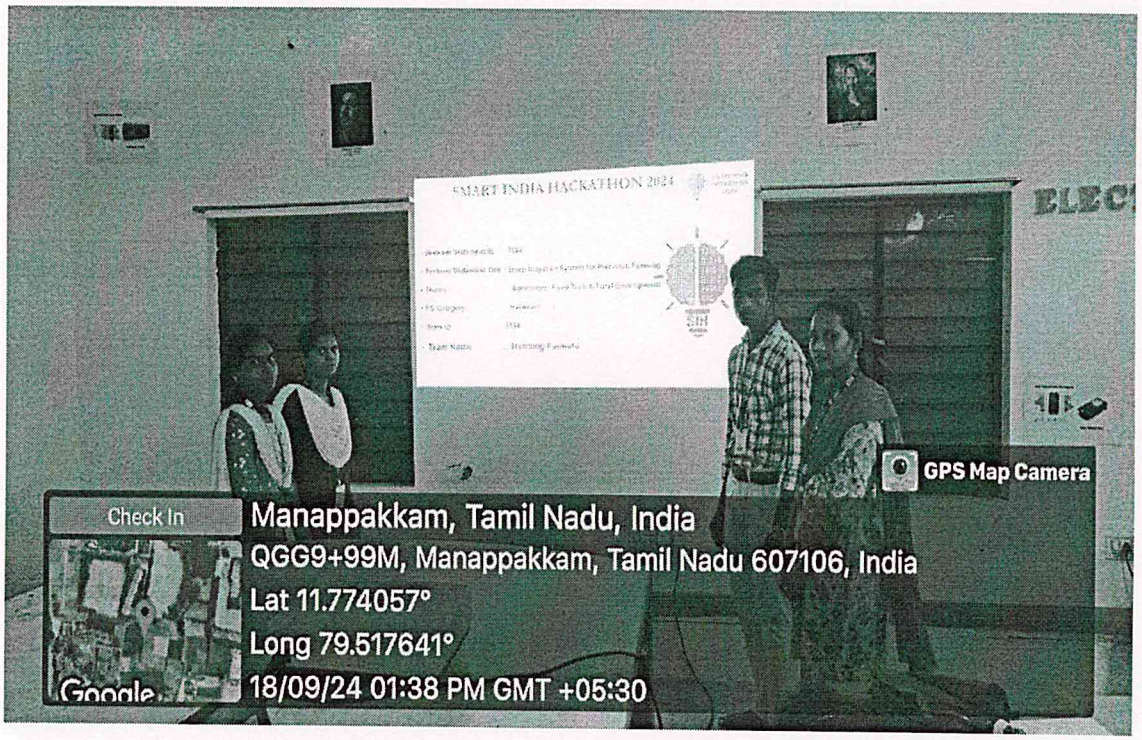

GPS Map Camera
Check In
Manappakkam, Tamil Nadu, India
QGG9+99M, Manappakkam, Tamil Nadu 607106, India
Lat 11.77402°
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Google

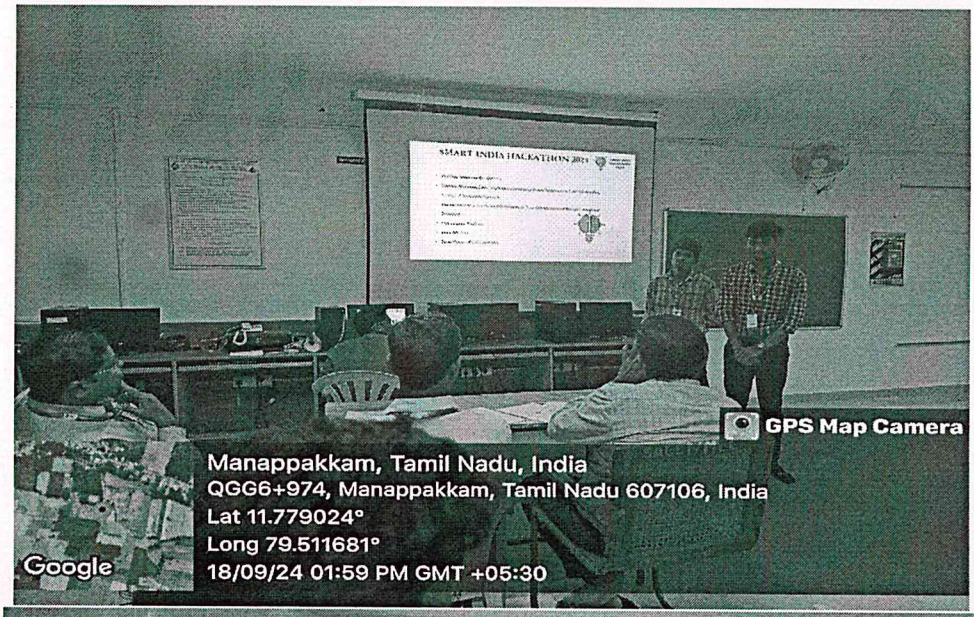

ELECTRO
GPS Map Camera
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QGG9+99M, Manappakkam, Tamil Nadu 607106, India
Lat 11.77404°
Long 79.517771°
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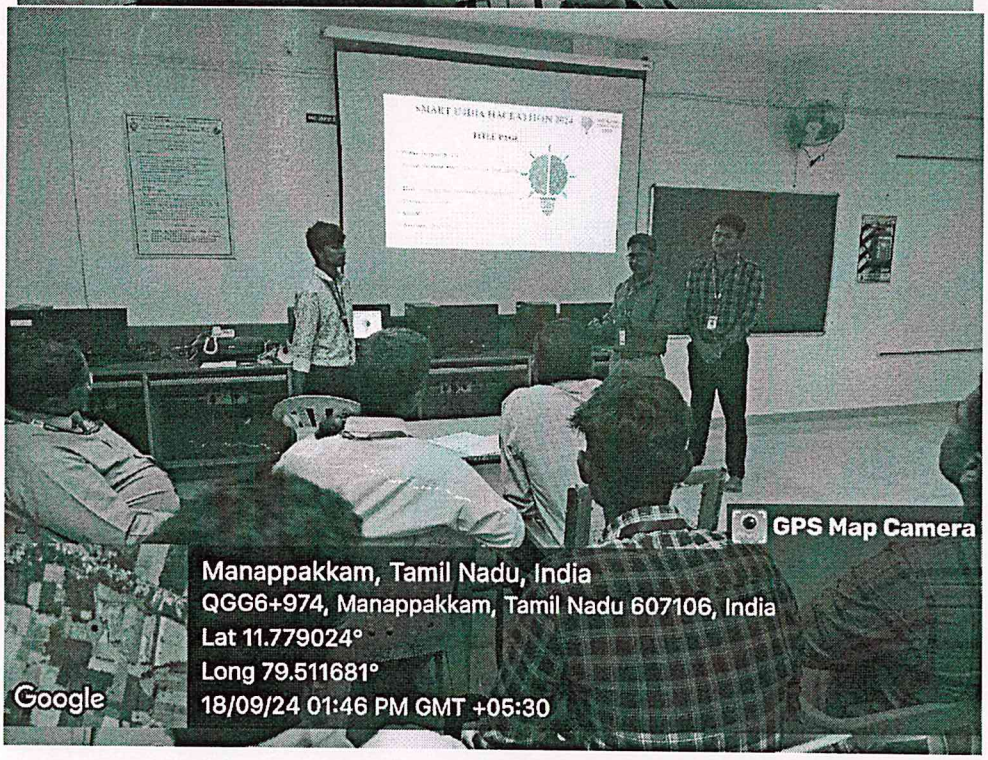

Technologies used to modify over heating of soil:
Mulching
Shading
Cover crops
Evaporative cooling
Under heating can be modified by burring the Soil heating cables inside the soil.
Automated irrigation scheduling is done for proper irrigation.
METHODOLOGY
FEASIBILITY AND VIABILITY
On considering the feasibility such as temperature modification can
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SANCET, Tamil Nadu 607106, India
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Long 79.507471°
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Google


TECHNICAL APPROACH
Technologies to be used
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SANCET, Tamil Nadu 607106, India
Lat 11.775067°
Long 79.507471°
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SMART INDIA HACKATHON 2024
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QGG9+99M, Manappakkam, Tamil Nadu 607106, India
Lat 11.774057°
Long 79.517641°
Google
18/09/24 01:38 PM GMT +05:30


GPS Map Camera
Manappakkam, Tamil Nadu, India
QGG6+974, Manappakkam, Tamil Nadu 607106, India
Lat 11.779024°
Long 79.511681°
18/09/24 01:59 PM GMT +05:30
Google


GPS Map Camera
Manappakkam, Tamil Nadu, India
QGG6+974, Manappakkam, Tamil Nadu 607106, India
Lat 11.779024°
Long 79.511681°
18/09/24 01:46 PM GMT +05:30
Google

**JUDGING PROCESS:**

The following criteria have been followed for the judging process.

- Problem Identification - 20 Marks
- Solution Proposal – 30 Marks
- Technical Implementation - 30 Marks
- Presentation Quality - 20 Marks

**JUDGES DETAILS:**



**Mrs. M. SANGEETHA**
Software Trainer,
Skillsin Corp
Vadalur, Tamilnadu



**Mr. KARTHIK BALARAMAN**
Chief Executive Officer,
Innovation & Operations,
Ocean Academy, Pondicherry.



**Dr. D. OMMURUGADHASAN**
Professor
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology, Panruti



**Dr. K. SRIRAM**
Associate Professor
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology, Panruti

**SIH 2024 NOMINATED TEAMS: 18**

| S. No. | Problem Statement ID | Theme Name | Category | Team Name |
|---|---|---|---|---|
| 1 | SIH1625 | Smart Automation | Software | INNOVATION WAREHOUSE |
| 2 | SIH1604 | Smart Automation | Software | BOTSAGE |
| 3 | SIH1589 | Blockchain & Cybersecurity | Software | PROTECTED VOTES TEAM |
| 4 | SIH1600 | Smart Automation | Software | FOOD EPICUR |
| 5 | SIH1608 | Smart Education | Software | QUANTUM CODE BRAKERS |
| 6 | SIH1545 | Renewable / Sustainable Energy | Hardware | MECHBOT |
| 7 | SIH1573 | Renewable / Sustainable Energy | Hardware | MECH MARVELS |
| 8 | SIH1576 | Clean & Green Technology | Hardware | MECH ELITE |

| | | | | |
|---|---|---|---|---|
| 9 | SIH1575 | Clean & Green Technology | Hardware | AKAT SUKI |
| 10 | SIH1572 | Renewable / Sustainable Energy | Hardware | TECH CONQUEROS |
| 11 | SIH1536 | Agriculture, FoodTech & Rural Development | Hardware | SOIL SQUAD |
| 12 | SIH1583 | Miscellaneous | Hardware | RULE BRAKERS |
| 13 | SIH1542 | Space Technology | Hardware | FUTURE FUSION |
| 14 | SIH1576 | Clean & Green Technology | Hardware | CORBON CRUSHERS |
| 15 | SIH1545 | Renewable / Sustainable Energy | Hardware | MIRACLE WORKERS |
| 16 | SIH1554 | Agriculture, FoodTech & Rural Development | Hardware | TRENDING FARMERS |
| 17 | SIH1638 | Agriculture, FoodTech & Rural Development | Software | CROPEYES |
| 18 | SIH1536 | Agriculture, FoodTech & Rural Development | Hardware | Achievers |

**PARTICIPATION STATISTICS:**

Total Number of Participants: 222

Total Teams: 37

Male Participants: 162

Female Participants: 60

| | MALE | FEMALE | TOTAL | TEAM |
|---|---|---|---|---|
| **ECE** | 27 | 21 | 48 | 08 |
| **EEE** | 46 | 8 | 54 | 09 |
| **MECH** | 48 | - | 48 | 08 |
| **CSE & AIML** | 41 | 31 | 72 | 12 |

**SOCIAL MEDIA LINKS:**

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Twitter: https://twitter.com/stannescet_prt

Instagram: https://instagram.com/stannescet_prt/

**SIH SPOC** 20/9/2024

Head of the Department
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St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

20/9/24

**PRINCIPAL**
Dr.R.AROKIADASS, M.E., Ph.D.,
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Cuddalore-(Dist), Pin: 607 110.

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

# PROBLEM BASED CONCEPTUAL INTEGRATED COURSES

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# PROBLEM BASED CONCEPTUAL INTEGRATED COURSES

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## PROBLEM BASED CURRICULUM INTEGRATED INTO COURSES

## REGULATION 2021

The following subjects are listed under problem based curriculum integrated into Courses for all the year students during 2024-2025.

| S. No. | SUBJECT CODE | SUBJECT NAME |
|---|---|---|
| **Semester-I** | | |
| 1. | GE3151 | Problem Solving and Python Programming |
| 2. | PH3151 | Engineering Physics |
| 3. | CY3151 | Engineering Chemistry |
| **Semester-II** | | |
| 1. | PH3254 | Physics for Electronics Engineering |
| 2. | GE3251 | Engineering Graphics |
| 3. | BE3251 | Basic Electrical and Electronics Engineering |
| 4. | CS3251 | Programming in C |
| **Semester-III** | | |
| 1. | CS3351 | Digital Principles and Computer Organization |
| 2. | CS3352 | Foundations of Data Science |
| 3. | CS3301 | Data Structures |
| 4. | CS3391 | Object Oriented Programming |
| **Semester-IV** | | |
| 1. | CS3452 | Theory of Computation |
| 2. | CS3492 | Database Management Systems |
| 3. | CS3451 | Introduction to Operating Systems |
| **Semester-V** | | |
| 1. | CB3491 | Cryptography and Cyber Security |
| 2. | CS3551 | Distributed Computing |
| **Semester-VI** | | |
| 1. | CCS354 | Network Security |

**PREPARED BY**

for M.

**VERIFIED BY**

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ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k)

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## PROBLEM BASED CURRICULUM INTEGRATED INTO COURSES

## REGULATION 2021

The following subjects are listed under problem-based curriculum integrated into Courses for 1st year, 2nd year and 3rd year students during 2024-2025.

| S. No. | SUBJECT CODE | SUBJECT NAME |
|---|---|---|
| **Semester-I** | | |
| 1 | GE3151 | Problem Solving and Python Programming |
| 2 | MA3151 | Matrices and Calculus |
| 3 | PH3151 | Engineering Physics |
| 4 | CY3151 | Engineering Chemistry |
| **Semester-II** | | |
| 1 | MA3251 | Statistics and Numerical Methods |
| 2 | PH3202 | Physics for Electrical Engineering |
| 3 | GE3251 | Engineering Graphics |
| 4 | EE3251 | Electric Circuit Analysis |
| **Semester-III** | | |
| 1. | MA3303 | Probability and Complex Functions |
| 2. | EE3301 | Electromagnetic Fields |
| 3. | EE3302 | Digital Logic Circuits |
| 4. | EE3303 | Electrical Machines - I |
| 5. | EC3301 | Electron Devices and Circuits |
| **Semester-IV** | | |
| 1. | EE3401 | Transmission and Distribution |
| 2. | EE3405 | Electrical Machines - II |
| 3. | EE3402 | Linear Integrated Circuits |
| 4. | EE3403 | Measurements and Instrumentation |
| **Semester-V** | | |
| 1. | EE3501 | Power System Analysis |
| 2. | EE3591 | Power Electronics |
| 3. | EE3503 | Control Systems |
| **Semester-VI** | | |
| 1. | EE3602 | Power System Operation and Control |

**PREPARED BY**

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Department of Electrical and Electronics Engineering
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**APPROVED BY**

Dr.R.ARUKIADASS, M.E., Ph.D.,
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# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI -607 106.

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## PROBLEM BASED CURRICULUM INTEGRATED INTO COURSES

## REGULATION 2021

The following subjects are listed under problem based curriculum integrated into Courses for 1st year, 2nd year and 3rd year students & 4th Year Students during 2024-2025.

| S. No. | SUBJECT CODE | SUBJECT NAME |
|---|---|---|
| | | **Semester-I** |
| 1 | GE3151 | Problem Solving and Python Programming |
| 2 | PH3151 | Engineering Physics |
| 3 | CY3151 | Engineering Chemistry |
| | | **Semester-II** |
| 1 | PH3254 | Physics for Electronics Engineering |
| 2 | BE3254 | Electrical and Instrumentation Engineering |
| 3 | GE3251 | Engineering Graphics |
| 4 | EC3251 | Circuit Analysis |
| | | **Semester-III** |
| 1. | EC3354 | Signals and Systems |
| 2. | CS3353 | C Programming and Data Structures |
| 3. | EC3353 | Electronic Devices and Circuits |
| 4. | EC3351 | Control Systems |
| | | **Semester-IV** |
| 1. | EC3401 | Network and security |
| 2. | EC3492 | Digital Signal Processing |
| 3. | EC3452 | Electromagnetic Fields |
| 4. | EC3451 | Linear Integrated Circuits |
| | | **Semester-V** |
| 1. | EC3501 | Wireless communication |
| 2. | EC3552 | VLSI and Chip Design |
| 3. | EC3551 | Transmission lines and RF Systems |
| 4. | CEC366 | Image Processing |
| 5. | CEC352 | Satellite Communication |
| 6. | CEC345 | Optical Communication & Networks |
| | | **Semester-VI** |
| 1. | CS3491 | Artificial Intelligence and Machine Learning |
| | | **Semester-VII** |
| 1. | OMR351 | Mechatronics |

S. Durga 13/5/2025
**PREPARED BY**

**VERIFIED BY** 13/5/25

Head of the Department
Department of Electronics and Communication Engineering
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**APPROVED BY** 31/5/25

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Cuddalore-(Dist), Pin. 607 106.

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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## DEPARTMENT OF MECHANICAL ENGINEERING

## PROBLEM BASED CURRICULUM INTEGRATED INTO COURSES

## REGULATION 2021

The following subjects are listed under problem based curriculum integrated into Courses for 1st year, 2nd year and 3rd year students during 2024-2025.

| S. No. | SUBJECT CODE | SUBJECT NAME |
|---|---|---|
| **Semester-I** | | |
| 1 | GE3151 | Problem Solving and Python Programming |
| 2 | PH3151 | Engineering Physics |
| 3 | CY3151 | Engineering Chemistry |
| **Semester-II** | | |
| 1 | PH3254 | Physics for Electronics Engineering |
| 2 | BE3254 | Electrical and Instrumentation Engineering |
| 3 | GE3251 | Engineering Graphics |
| 4 | EC3251 | Circuit Analysis |
| **Semester-III** | | |
| 1. | MA3351 | Transforms and Partial Differential Equation |
| 2. | ME3351 | Engineering Mechanics |
| 3. | ME3391 | Engineering Thermodynamics |
| 4. | CE3391 | Fluid Mechanics and Machinery |
| **Semester-IV** | | |
| 1. | ME3491 | Theory of machines |
| 2. | ME3451 | Thermal Engineering |
| 3. | CE3491 | Strength of Materials |
| 4. | | |
| **Semester-V** | | |
| 1. | ME3591 | Design of Machine Elements |
| 2. | ME3592 | Metrology and Measurements |
| 3. | CME372 | CAD/CAE |
| **Semester-VI** | | |
| 1. | ME3691 | Heat and mass Transfer |

**PREPARED BY**

**VERIFIED BY**

Head of the Department
Department of Mechanical Engineering
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Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

**APPROVED BY**

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ANGUCHETTYPALAYAM,
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## DEPARTMENT OF CSE (AIML)

## PROBLEM BASED CURRICULUM INTEGRATED INTO COURSES

## REGULATION 2021

The following subjects are listed under problem based curriculum integrated into Courses for 1st year and 2nd year students during 2024-2025.

| S. No. | SUBJECT CODE | SUBJECT NAME |
|---|---|---|
| | | **Semester-I** |
| 1. | GE3151 | Problem Solving and Python Programming |
| 2. | PH3151 | Engineering Physics |
| 3. | CY3151 | Engineering Chemistry |
| | | **Semester-II** |
| 1. | PH3254 | Physics for Electronics Engineering |
| 2. | GE3251 | Engineering Graphics |
| 3. | BE3251 | Basic Electrical and Electronics Engineering |
| 4. | CS3251 | Programming in C |
| | | **Semester-III** |
| 1. | CS3351 | Digital Principles and Computer Organization |
| 2. | CS3352 | Foundations of Data Science |
| 3. | CD3291 | Data Structures and Algorithms |
| 4. | CS3391 | Object Oriented Programming |
| | | **Semester-IV** |
| 1. | CS3452 | Theory of Computation |
| 2. | AL3452 | Operating Systems |
| 3. | AD3391 | Database Design and Management |
| 4. | AL3451 | Machine Learning |
| 5. | AL3391 | Artificial Intelligence |

**PREPARED BY**

**VERIFIED BY**

Head of the Department
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(Artificial Intelligence and Machine Learning)
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Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

**APPROVED BY**

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ANGUCHETTYPALAYAM,
Sirupathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin. 607 106.