



# SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)  
(Accredited by NBA-AICTE, New Delhi, ISO 9001:2000 Certified Institution &  
Accredited by NAAC with "A" Grade)

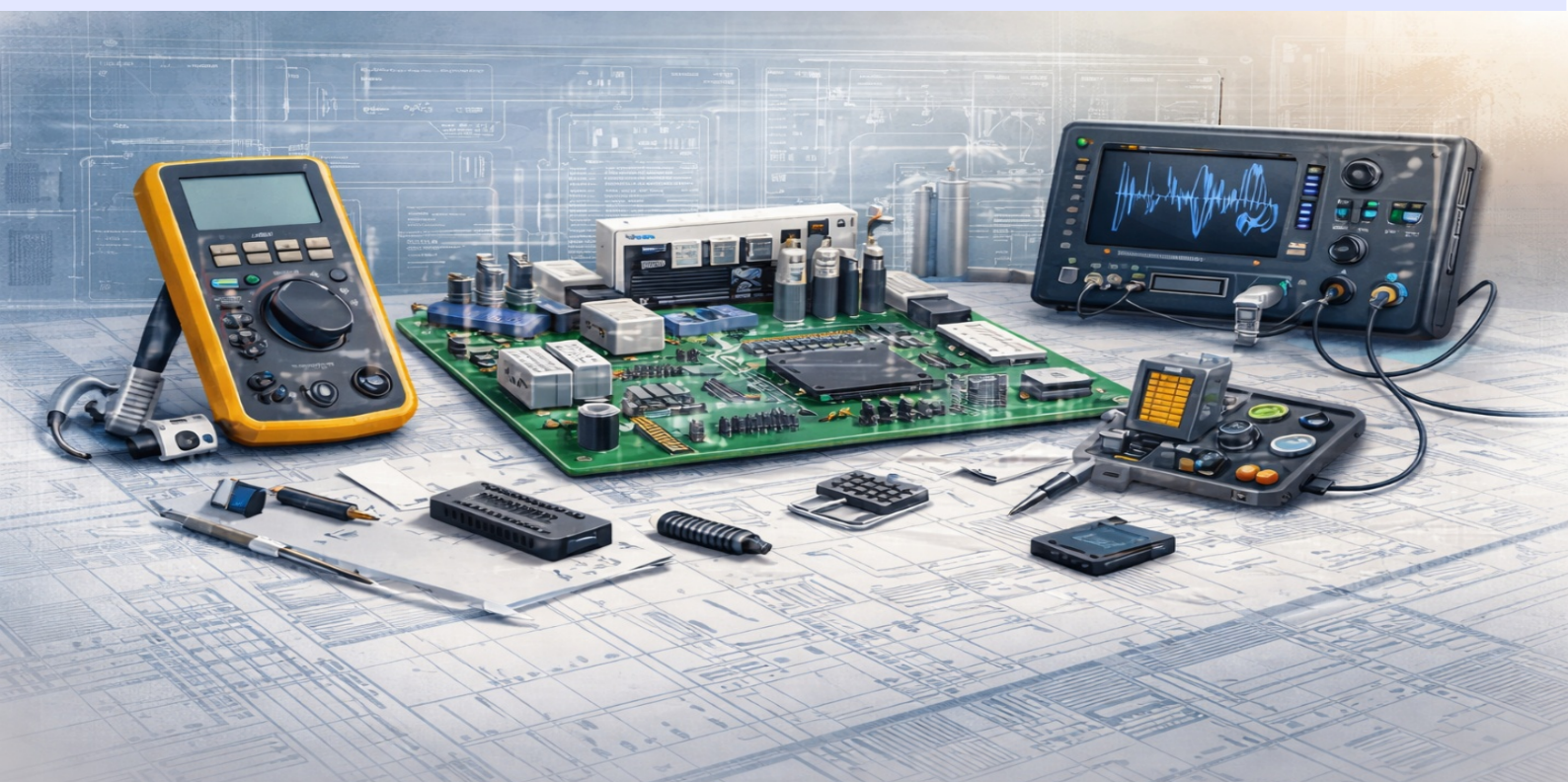
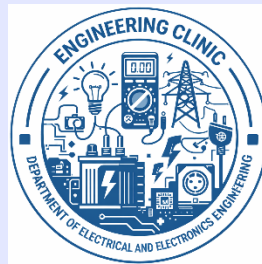
Madagadipet, Puducherry - 605 107



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### ENGINEERING CLINIC – REPORT

(Academic Year: 2023 to 2024)



## Preface

The Engineering Clinic of the Department of Electrical and Electronics Engineering at Sri Manakula Vinayagar Engineering College functions as a structured academic platform designed to strengthen students' technical competence through experiential and application-oriented learning. The initiative is guided by the Dean, Head of the Department, and dedicated faculty coordinators, with the active support of committed teaching staff. It provides a systematic environment where undergraduate students participate in organized technical activities and hands-on training sessions. The clinic primarily focuses on the troubleshooting and maintenance of real-time electrical and electronic appliances, allowing students to connect theoretical concepts with practical implementation.

Through these activities, students gain exposure to fault identification, component-level analysis, and system-level diagnostics. They are trained to follow structured problem-solving methodologies, use appropriate testing instruments, and adopt safe working practices. The Engineering Clinic also encourages interdisciplinary learning, technical documentation, and collaborative teamwork among students. By working on real-world problems, students improve their analytical thinking, technical accuracy, and decision-making skills.

In addition, the clinic promotes professional ethics, responsibility, and effective communication, which are essential qualities for modern engineers. Regular technical sessions, demonstrations, and guided practice help students build confidence in handling electrical and electronic systems. The initiative not only enhances practical knowledge but also prepares students to meet industry expectations. Overall, the Engineering Clinic plays a significant role in producing competent, industry-ready engineers and contributes to the academic excellence and technological development of the institution.

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## ABOUT THE INSTITUTION

Sri Manakula Vinayaga Educational Trust was founded to provide quality and affordable education to the weaker sections of society. The trust established Sri Manakula Vinayagar Engineering College (SMVEC) in 1999. SMVEC is an autonomous institution affiliated to Pondicherry University. It offers 13 undergraduate, 8 postgraduate and 11 Research programme in engineering. SMVEC has been accredited by NAAC with “A” grade and NBA. The institution is also accredited by TATA consultancy services. The college has a good placement record with students getting job offers from top companies in India and abroad. SMVEC students have won many awards and accolades for their academic achievements.

### Vision

- To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society

### Mission

**M1: Quality Education** : To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

**M2: Research and Innovation** : To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.

**M3: Employability and Entrepreneurship** : To inculcate the employability and entrepreneurial skills through value and skill based training.

**M4: Ethical Values** : To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.





## DEPARTMENT VISION AND MISSION

### Vision

To promote proficiency in the field of Electrical and Electronics Engineering by creating a stimulating environment for research, innovation and entrepreneurship.

### Mission

- **Quality Education:** To impart high quality technical education with problem solving capabilities by innovative pedagogy in emerging technologies
- **Industrial and Societal Needs:** To cater the dynamic needs of the industry and society by strengthening industry - institute interaction.
- **Research and Innovation:** To nurture the spirit of research attitude by carrying out innovative technologies pragmatically.
- **Placement and Entrepreneurship:** To inculcate the professionalism in career by advancing synergetic skills to compete in the corporate world.



## About Engineering Clinic

### Objective of Engineering clinic club

- To provide students with practical exposure to electrical and electronic systems used in daily life.
- To develop hands-on skills in troubleshooting, servicing, and repairing domestic electrical appliances.
- To enhance students' understanding of electrical components, circuits, and their functions through real-time applications.
- To train students in essential electrical practices such as wiring, soldering, component testing, fuse replacement, and earthing.
- To strengthen problem-solving and fault diagnosis abilities through systematic analysis of equipment failures.
- To bridge the gap between theoretical concepts learned in the classroom and practical industrial requirements.
- To improve technical competency, safety awareness, and maintenance skills in handling electrical equipment.
- To encourage innovation, self-learning, and confidence in addressing real-world electrical and electronic challenges.
- To prepare students for employment and entrepreneurial opportunities in electrical maintenance and service sectors.
- To promote community service by enabling students to provide basic repair and maintenance support for electrical appliances.

### Functions of Engineering Clinic

- Hands on - Students apply what they are learning about.
- Integrated - Demonstrate correlations with supporting course work.
- Multidisciplinary - Involve students as a community of problem solvers.
- Teamwork - Emphasize the advantage of effective teaming.
- Entrepreneurial - Reinforce value-based engineering.
- Contextual - Help students understand the big picture.
- Every Saturday Faculties have to explain about the troubleshooting of domestic electrical appliances.
- The faculty members have to train the students to identify the Fault in an electrical appliance.
- The Faculty members need to provide the hands on training to the students.

### Student Members of the Club :

All I Year, II Year & III Year students of the Department

## OFFICE BEARERS AND THEIR PORTFOLIOS

| SL.NO | NAME OF THE FACULTY     | DESIGNATION       | POSITION             |
|-------|-------------------------|-------------------|----------------------|
| 1.    | Dr.S. Anbumalar         | Dean Academics    | Convener             |
| 2.    | Dr. P. Jamuna           | Professor / EEE   | Faculty Coordinators |
| 3.    | Dr. D. Raja             | Professor / EEE   |                      |
| 4.    | Mr. R. Ragupathy        | AP/EEE            |                      |
| 5.    | Mr. G. Rajavel          | AP/EEE            |                      |
| 6.    | Dr.S. Ganesh Kumaran    | Assoc. Prof. /EEE | Member               |
| 7.    | Mr.Parthiban,B          | AP/EEE            | Member               |
| 8.    | Dr.Sivaraj              | AP/EEE            | Member               |
| 9.    | Mr.A. Janagiraman       | AP/EEE            | Member               |
| 10.   | Mr.K. Thangaraj         | AP/EEE            | Member               |
| 11.   | Mr.J.Muruganandham      | AP/EEE            | Member               |
| 12.   | Mr.Adrien Periyamayagam | AP/EEE            | Member               |
| 13.   | Mr.I. Shivasankkar      | AP/EEE            | Member               |
| 14.   | Mr.R. Vignesh           | AP/EEE            | Member               |
| 15.   | Mrs.K.Kavinelavu        | AP/EEE            | Member               |
| 16.   | Ms. Abinayasaraswathi   | AP/EEE            | Member               |
| 17.   | Mr.Elanthamizh          | AP/EEE            | Member               |



**Dr. D.Raja**  
**Professor**



**Mr .G. Rajavel**  
**Assistant Professor**



**Dr.s.Ganesh Kumaran**  
**Associate Professor**  
**Member**



**Mr.A.Janagiraman**  
**Assistant Professor**  
**Member**



**Mr.K.Thangaraj**  
**Assistant Professor**  
**Member**



**Mr.J.Muruganandham**  
**Assistant Professor**  
**Member**



### Functions of Engineering Clinic

- Hands on - Students apply what they are learning about.
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All I Year, II Year & III Year students of the Department

### ACTIVITIES CONDUCTED BY ENGINEERING CLUB – (2023 – 2024)

| Sl. No | Activity                                                                | Date       | Year/Sem/Batch          |
|--------|-------------------------------------------------------------------------|------------|-------------------------|
| 1.     | Fault detection and troubleshooting of Voltage stabilizer               | 26.08.2023 | III / V / 2021-2025     |
| 2.     | Fault detection and troubleshooting in Wet Grinder & Water Heater       | 2.09.2023  | III / V / 2021-2025     |
| 3.     | Fault detection and replacing a component in Printed Circuit Board      | 16.09.2023 | III / V / 2021-2025     |
| 4.     | Domestic wiring and size of wiring                                      | 21.10.2023 | I / I / 2023-2027       |
| 5.     | Troubleshooting and hands on training of an Iron box                    | 28.10.2023 | I / I / 2023-2027       |
| 6.     | Designing of Rectifier circuit in PCB                                   | 04.11.2023 | I-A / I / 2023-2027     |
| 7.     | Designing of Rectifier circuit in PCB                                   | 04.11.2023 | I-B / I / 2023-2027     |
| 8.     | Designing of USB Emergency Light                                        | 25.11.2023 | II/ III / 2022-2026     |
| 9.     | PCB Design for 5V                                                       | 02.12.2023 | I/ I / 2023-2027        |
| 10.    | Construction of Junction Box                                            | 24.02.2024 | I/II/ A&B/2023-2027     |
| 11.    | PCB Development for Battery charging circuit                            | 24.02.2024 | III/VI/ A/2021-2025     |
| 12.    | Design of Power Supply Circuit in a PCB                                 | 24.02.2024 | II/II/ A & B/2022-2026  |
| 13.    | PCB Development for Battery charging circuit                            | 02.03.2024 | III/VI/ A/2021-2025     |
| 14.    | Practical Demonstration of Domestic wiring and energy meter connections | 13.03.2024 | IV / VIII / 2020-2024   |
| 15.    | Troubleshooting of Domestic Electrical appliances                       | 23.03.2024 | I/II/ A&B/2023-2027     |
| 16.    | PCB Development for Battery charging circuit                            | 23.03.2024 | III/VI/ A/2021-2025     |
| 17.    | Design of Serial Light/Function Light in Zero matrix board              | 23.03.2024 | II/IV/ A & B/ 2022-2026 |
| 18.    | Hands on training in troubleshooting of Laptops and CPU's               | 7.05.2024  | I/ II / 2023-2027       |

## Engineering Clinic – Activity Report-1

|                |   |                                                             |
|----------------|---|-------------------------------------------------------------|
| Academic Year  | : | 2023 – 2024                                                 |
| Date/Day/Time  | : | 26.08.2023/Saturday / 1.15 P.M to 4.50 P.M                  |
| Year/Sem/Batch | : | III / V / 2021-2025                                         |
| Activities     | : | “Fault detection and troubleshooting of Voltage stabilizer” |

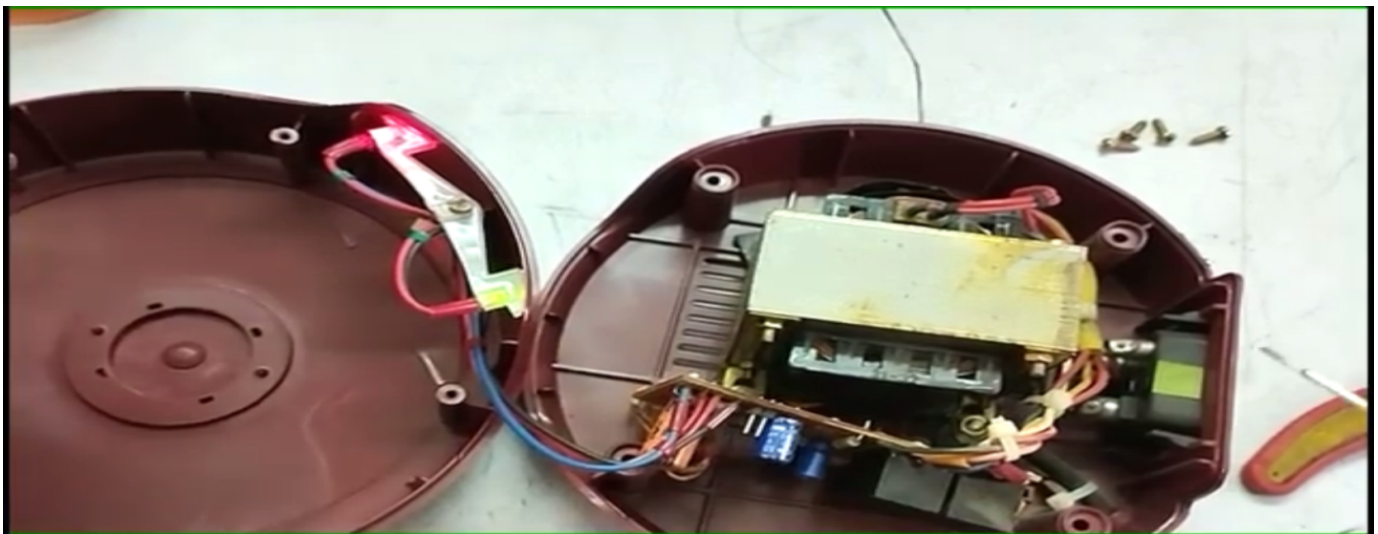


Mr. G. Rajavel, AP/EEE, delivered an enlightening presentation on the “Fault Identification and Troubleshooting Procedure for Voltage Stabilizers”. The presentation aimed to enhance the Students understanding of identifying relay faults in voltage stabilizers and the subsequent troubleshooting procedures to rectify the voltage stabilizer.





The students had trained through this session about the importance of visual examinations to identify any physical damage or loose connections. And also damaged components, burnt wires or visibly malfunctioning of relays can be detected.



In case where a faulty relay is identified, Mr. Rajavel emphasized the necessity of replacing the defective relay with a suitable replacement and the precautions to be taken during this process to ensure safety and optimal performance

## Engineering Clinic – Activity Report-2

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| Academic Year :  | 2023 – 2024                                                         |
| Date/Day/Time :  | 2.09.2023/Saturday / 1.15 P.M to 4.50 P.M                           |
| Year/Sem/Batch : | III / V / 2021-2025                                                 |
| Activities :     | “Fault detection and troubleshooting in Wet Grinder & Water Heater” |

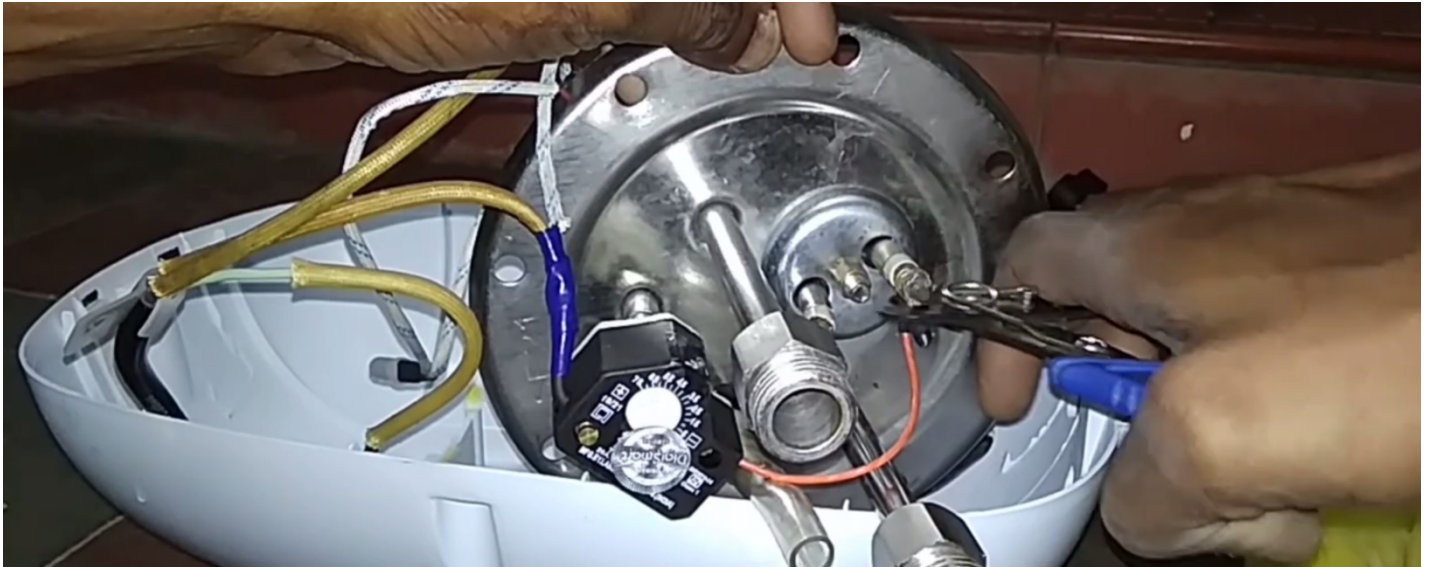


Mr. G. Rajavel, AP/EEE, delivered an enlightening presentation on the “Fault Identification and Troubleshooting Procedure for Wet Grinder”. The presentation aimed to enhance the Students understanding of identifying faults in Wet Grinder and the subsequent troubleshooting procedures to rectify them.



This session was described about fault identification and troubleshooting procedure for 3KW water heater, the students are able to get an idea about to rectify them.





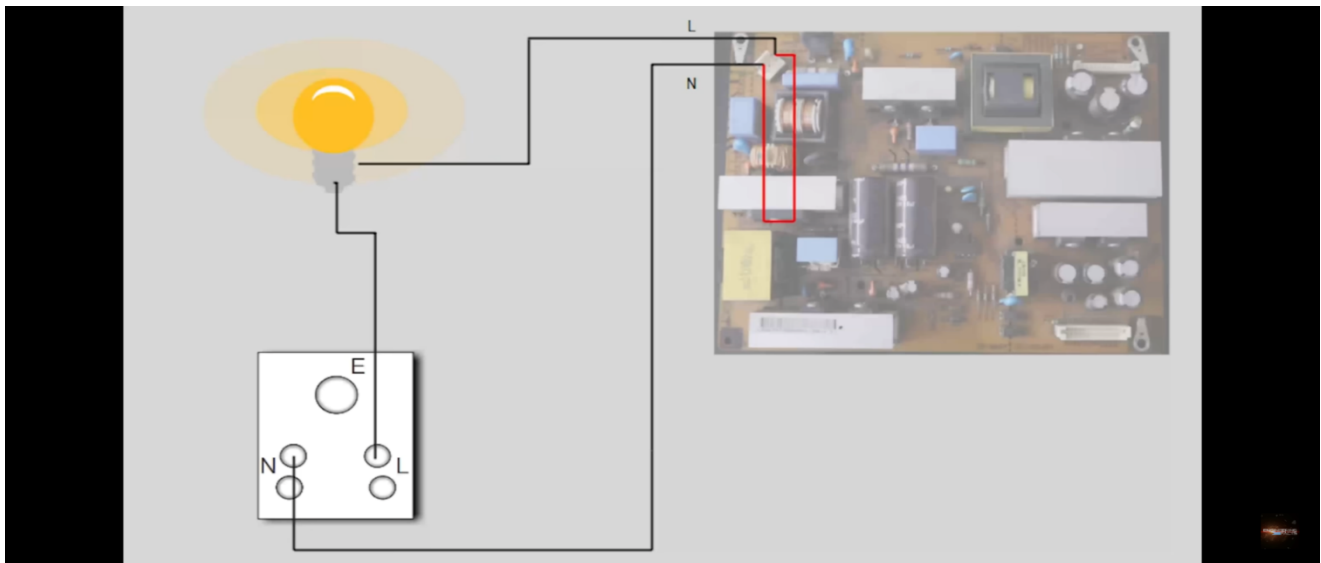
Video demonstration on internal parts of 3KW water heater, and the fault identification and replacing a component in it.

Engineering Clinic – Activity Report-3

|                  |                                                                      |
|------------------|----------------------------------------------------------------------|
| Academic Year :  | 2023 – 2024                                                          |
| Date/Day/Time :  | 16.09.2023/Saturday / 1.15 P.M to 4.50 P.M                           |
| Year/Sem/Batch : | III / V / 2021-2025                                                  |
| Activities :     | “Fault detection and replacing a component in Printed Circuit Board” |

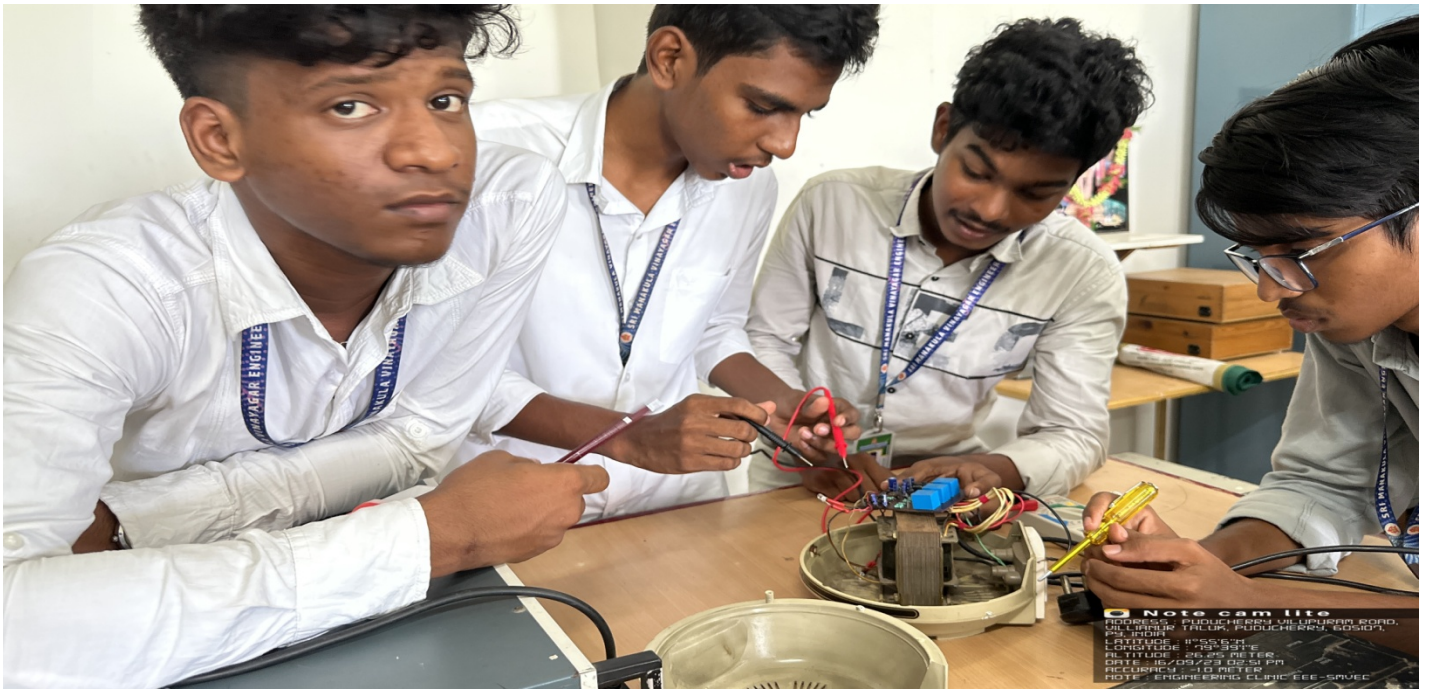


Mr. G. Rajavel, AP/EEE, delivered an informative and insightful presentation on the topic of "Fault Identification in PCB". The presentation aimed to educate the students about the process of identifying faults in printed circuit boards and the proper procedures for replacing faulty components.



This session emphasized the procedure of identifying faults in PCB with visual representations.





The students are actively engaged in hands-on training for troubleshooting electrical appliances.

## Engineering Clinic – Activity Report-4

|                  |                                      |
|------------------|--------------------------------------|
| Academic Year :  | 2023 – 2024                          |
| Date/Day/ :      | 21.10.2023/Saturday                  |
| Year/Sem/Batch : | I / I / 2023-2027                    |
| Activities :     | “Domestic wiring and size of wiring” |



Mr. R. Ragupathy, AP/EEE shared his valuable insights on the significance of wiring size and domestic wiring connection in ensuring electrical safety and efficiency



He has provided various domestic wiring diagrams, which were meticulously explained. These diagrams covered different circuit configurations, including lighting circuits, power circuits, and combination circuits, ensuring a clear understanding of the layout and connections



## Engineering Clinic – Activity Report-5

|                  |                                                        |
|------------------|--------------------------------------------------------|
| Academic Year :  | 2023 – 2024                                            |
| Date/Day/Time :  | 28.10.2023/Saturday / 8.45 A.M to 11.15 A.M            |
| Year/Sem/Batch : | I / I / 2023-2027                                      |
| Activities :     | “Troubleshooting and hands on training of an Iron box” |



Mr. G. Rajavel, AP/EEE, delivered an informative and insightful presentation on the topic of "Troubleshooting and Hands on training of an Iron box". The presentation aimed to educate the students about the process of identifying faults in Iron box and the proper procedures for replacing faulty components.

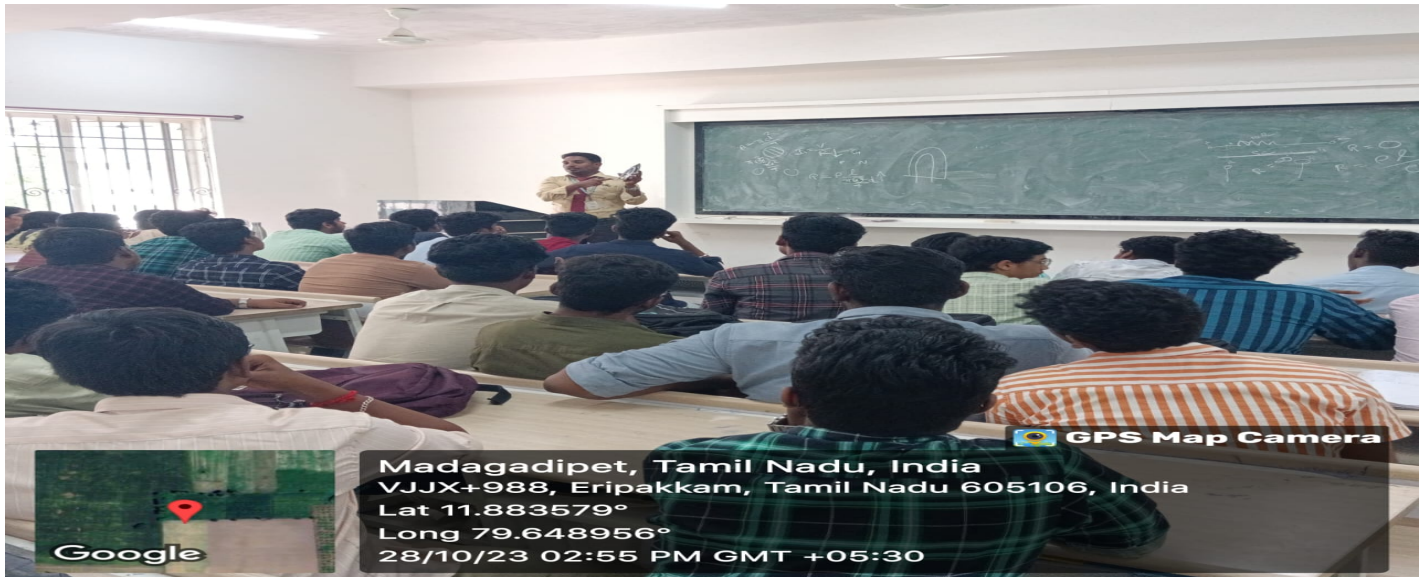


This session emphasized the procedure of identifying faults in Iron box.





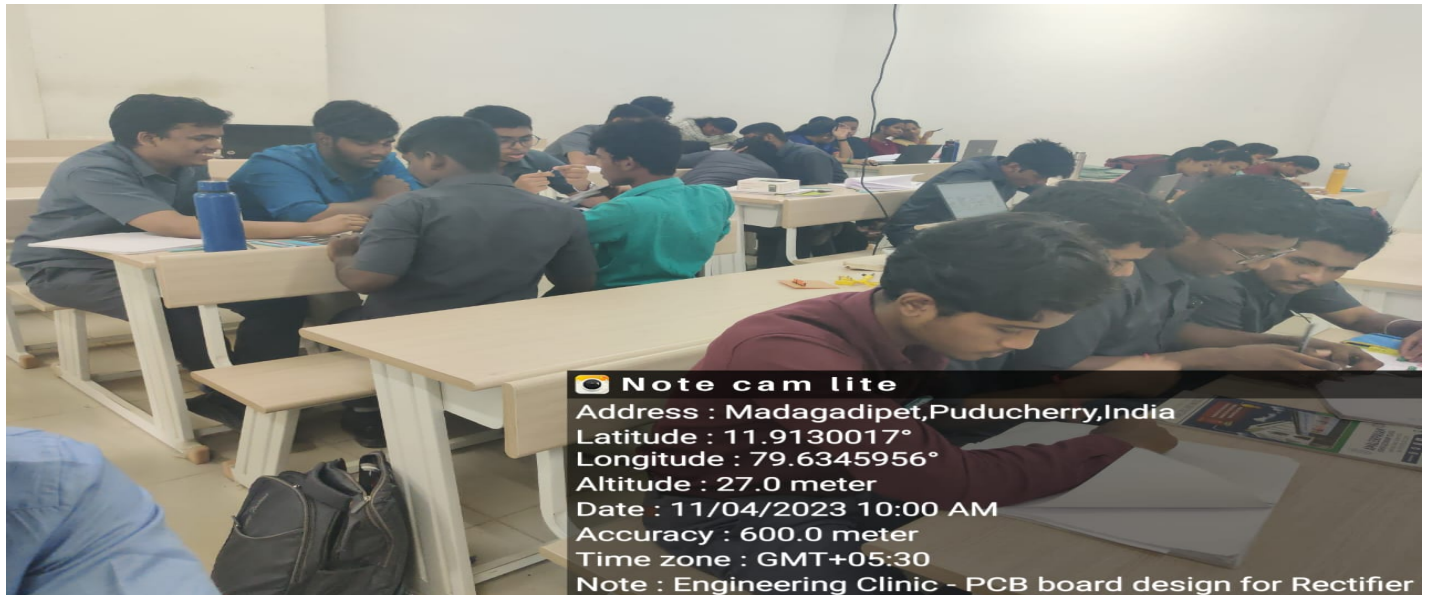
Dr. D. Sivaraj, AP/EEE, presented a comprehensive guide on the operation and troubleshooting procedures of an induction stove, accompanied by visual aids for a clearer understanding.



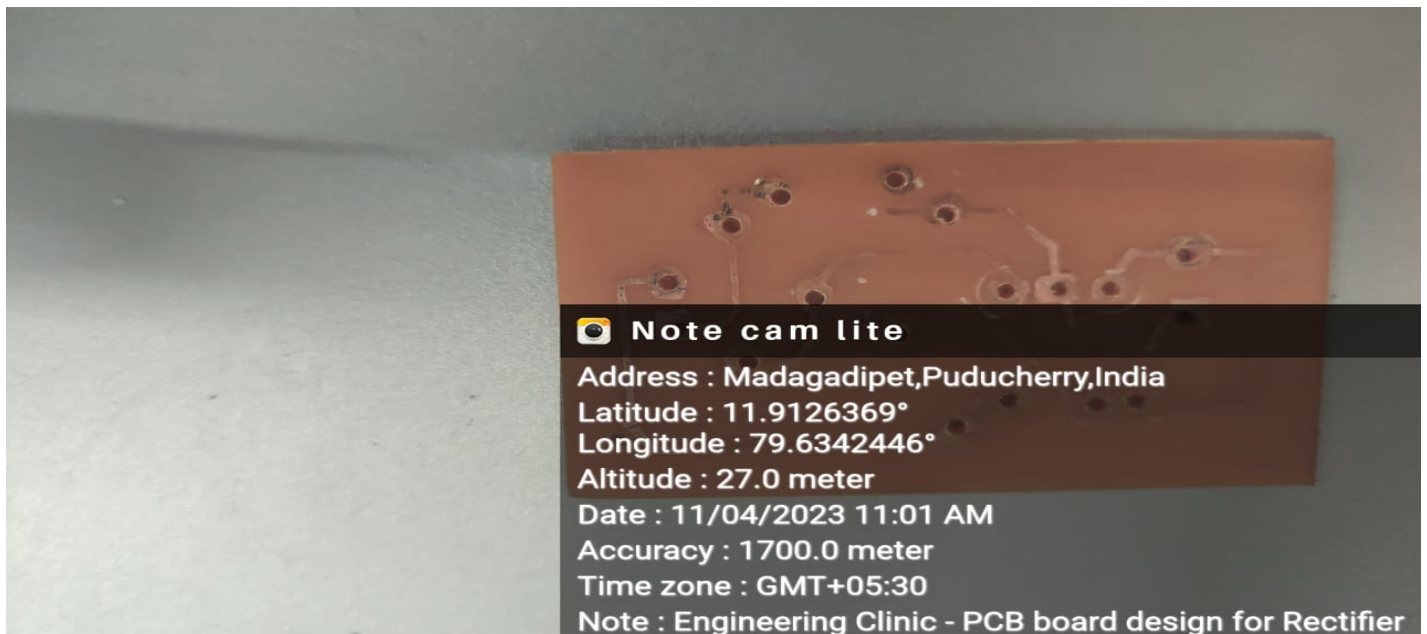
Mr. J. Muruganandham has successfully provided working and troubleshooting services for the iron box

## Engineering Clinic – Activity Report-6

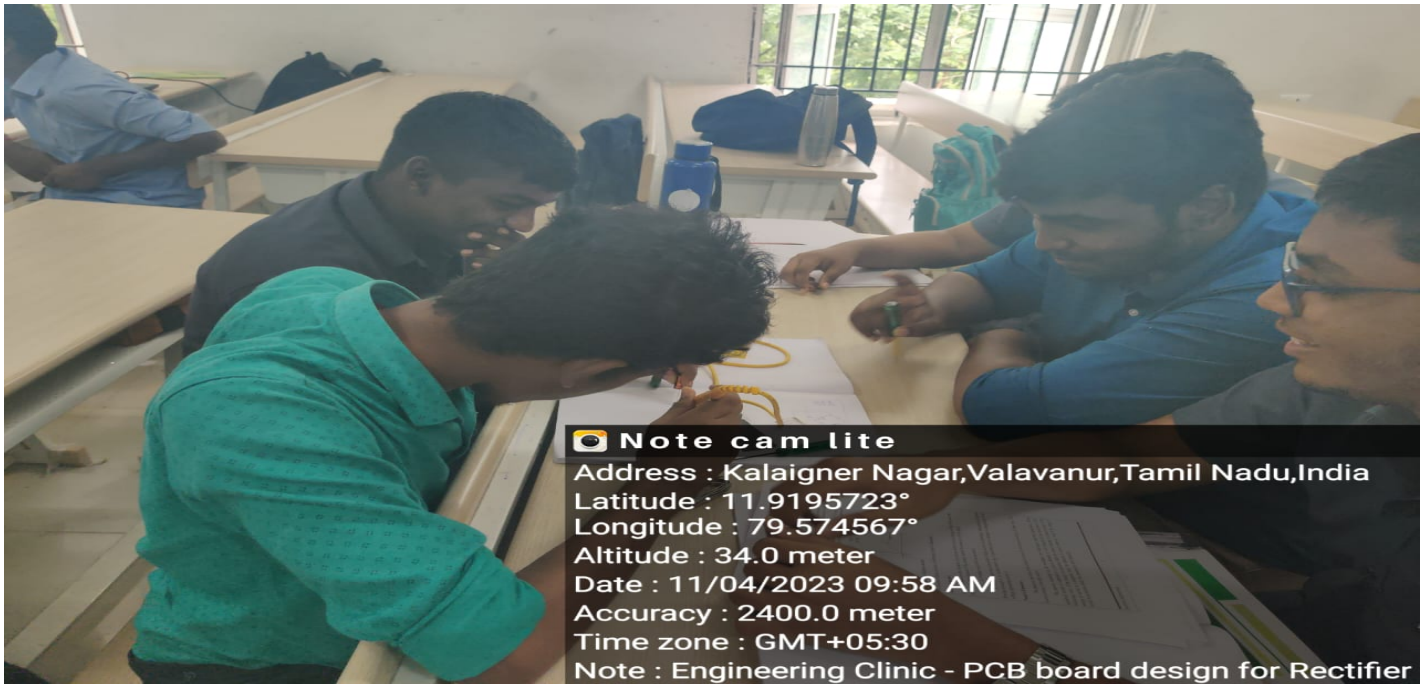
|                  |                                             |
|------------------|---------------------------------------------|
| Academic Year :  | 2023 – 2024                                 |
| Date/Day/Time :  | 04.11.2023/Saturday / 8.45 A.M to 11.15 A.M |
| Year/Sem/Batch : | I / I / 2023-2027                           |
| Activities :     | “Designing of Rectifier circuit in PCB”     |



Students designed a rectifier circuit on PCB with a guidance of Mr.John Powl AP/EEE and Mr.Rajavel.G AP/EEE



This session emphasized to make a Printed Circuit Board by the students

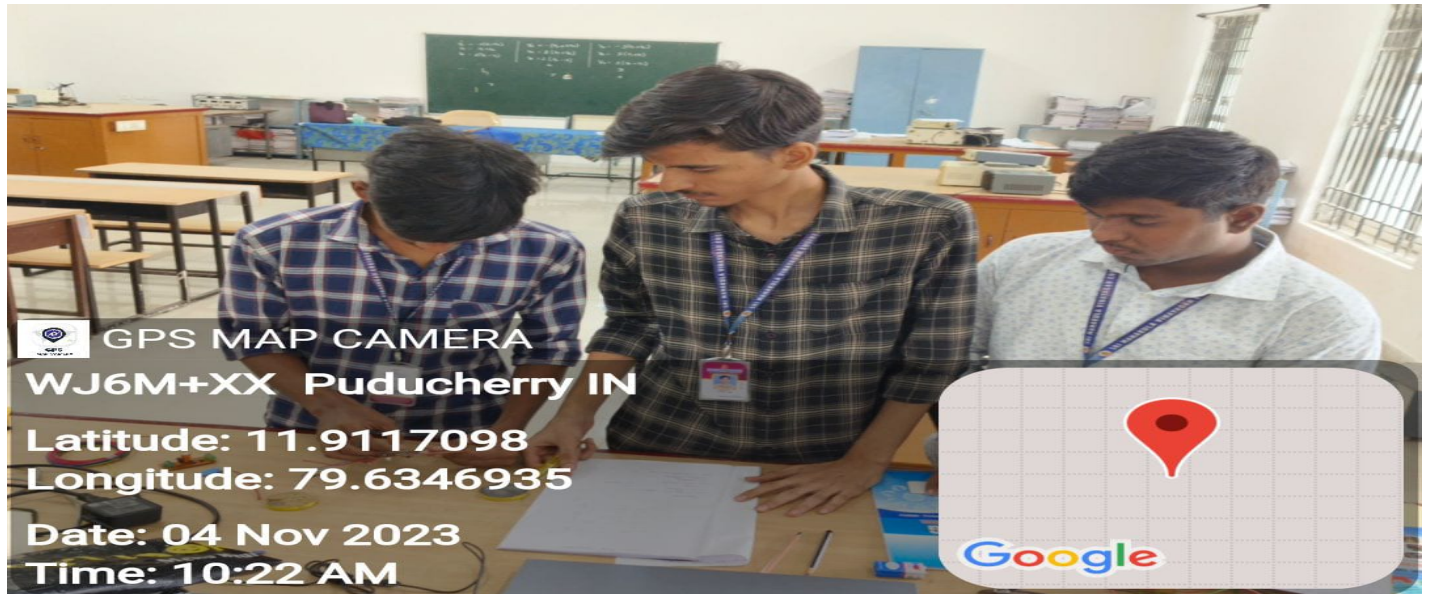


students are actively making a PCB



## Engineering Clinic – Activity Report-7

|                  |                                             |
|------------------|---------------------------------------------|
| Academic Year :  | 2023 – 2024                                 |
| Date/Day/Time :  | 04.11.2023/Saturday / 8.45 A.M to 11.15 A.M |
| Year/Sem/Batch : | I / I / 2023-2027                           |
| Activities :     | “Designing of Rectifier circuit in PCB”     |



The students' project aimed to design and construct a water level indicator circuit on a printed circuit board (PCB)



The students successfully designed a water level indicator circuit, showcasing their skills in electronic circuit design.



This project not only enhanced the students' understanding of electronic circuits but also showcased their ability to work on practical applications. The guidance and support from the professors Dr.D.Raja Professor/EEE, Mr.K.Thnagaraj AP/EEE, Mr.R.Ragupathy AP/EEE



## Engineering Clinic – Activity Report-8

|                  |                                             |
|------------------|---------------------------------------------|
| Academic Year :  | 2023 – 2024                                 |
| Date/Day/Time :  | 25.11.2023/Saturday / 9.00 A.M to 10.40 A.M |
| Year/Sem/Batch : | II/ III / 2022-2026                         |
| Activities :     | “Designing of USB Emergency Light”          |



The students' project aimed to design and construct a USB emergency light circuit



The students successfully designed a USB emergency Light showcasing their skills in electronic circuit design.

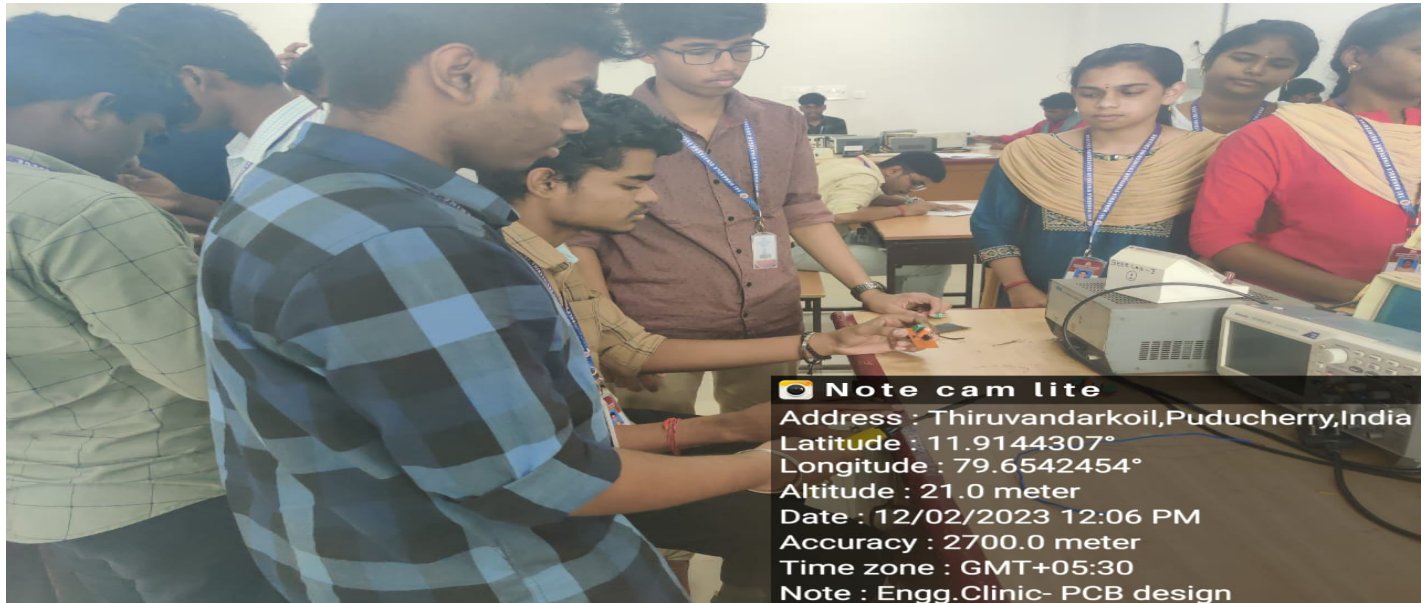




This project not only enhanced the students' understanding of electronic circuits but also showcased their ability to work on practical applications. The guidance and support from the Faculty Mr.G.Rajavel AP/EEE

## Engineering Clinic – Activity Report-9

|                  |                                              |
|------------------|----------------------------------------------|
| Academic Year :  | 2023 – 2024                                  |
| Date/Day/Time :  | 02.12.2023/Saturday / 10.25 A.M to 01.10 p.M |
| Year/Sem/Batch : | I/ I / 2023-2027                             |
| Activities :     | “PCB Design for 5V”                          |

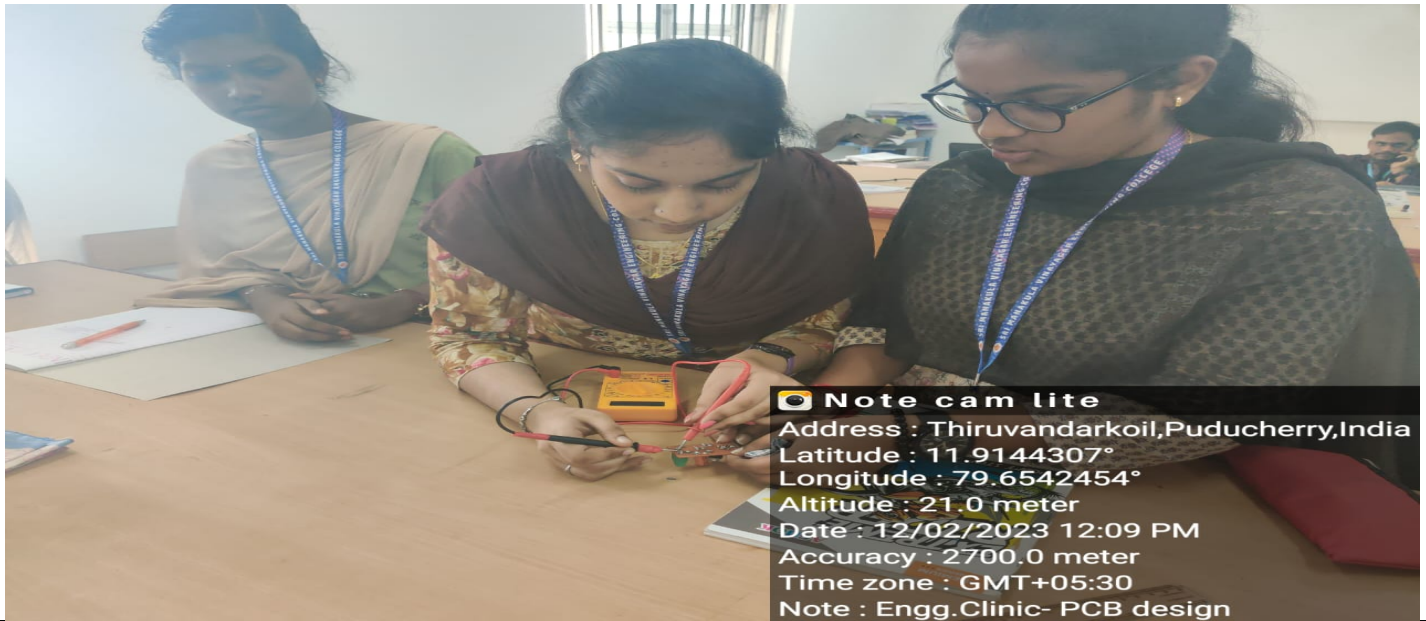


The students' project aimed to design and construct a 5V Printed circuit Board



The students successfully designed a 5V PCB their skills in electronic circuit design.



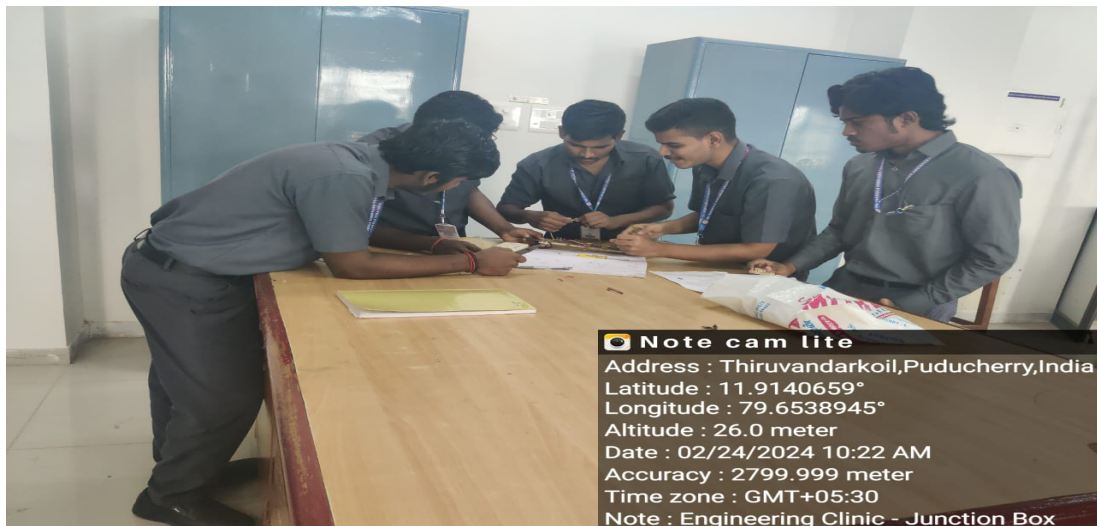


This project not only enhanced the students' understanding of electronic circuits but also showcased their ability to work on practical applications. The guidance and support from the Faculty Mr.S.John Powl AP/EEE

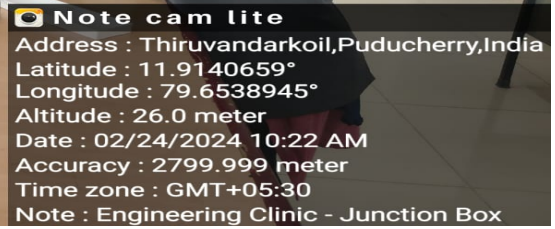


## Engineering Clinic – Activity Report-10

|               |   |                              |                         |
|---------------|---|------------------------------|-------------------------|
| Academic Year | : | 2023 – 2024                  |                         |
| Date/Day      | : | 24.02.2024/Saturday          | Year/Sem/Sec: I/II/ A&B |
| Activities    | : | Construction of Junction Box |                         |



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Accuracy : 2799.999 meter  
Time zone : GMT+05:30  
Note : Engineering Clinic - Junction Box



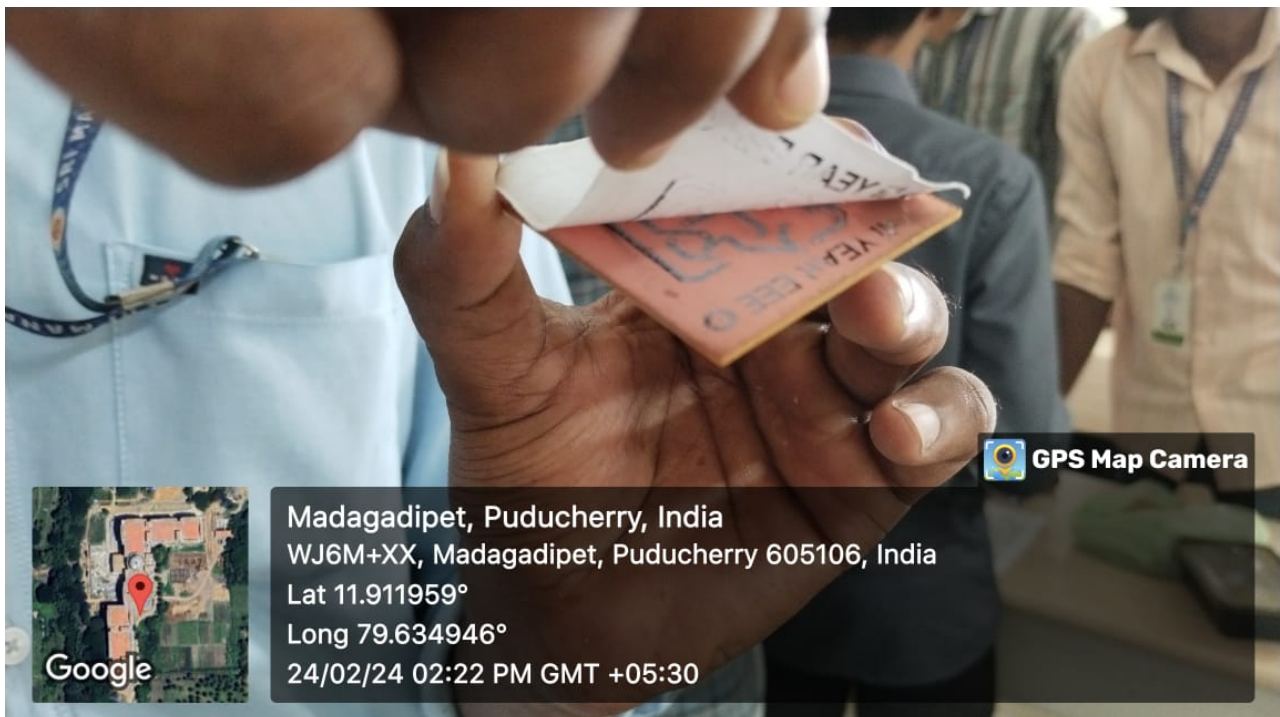
First-year students showcased impressive skills by independently constructing a Junction Box for their own use with the help of Mr.S.John Powl, Mr.I.Shivasankkar, Mr.K.Thangaraj, Mr.Elanthamizh - AP/EEE.

## Engineering Clinic – Activity Report-11

|               |   |                                                |                         |
|---------------|---|------------------------------------------------|-------------------------|
| Academic Year | : | 2023 – 2024                                    |                         |
| Date/Day      | : | 24.02.2024/Saturday                            | Year/Sem/Sec: III/VI/ A |
| Activities    | : | "PCB Development for Battery charging circuit" |                         |

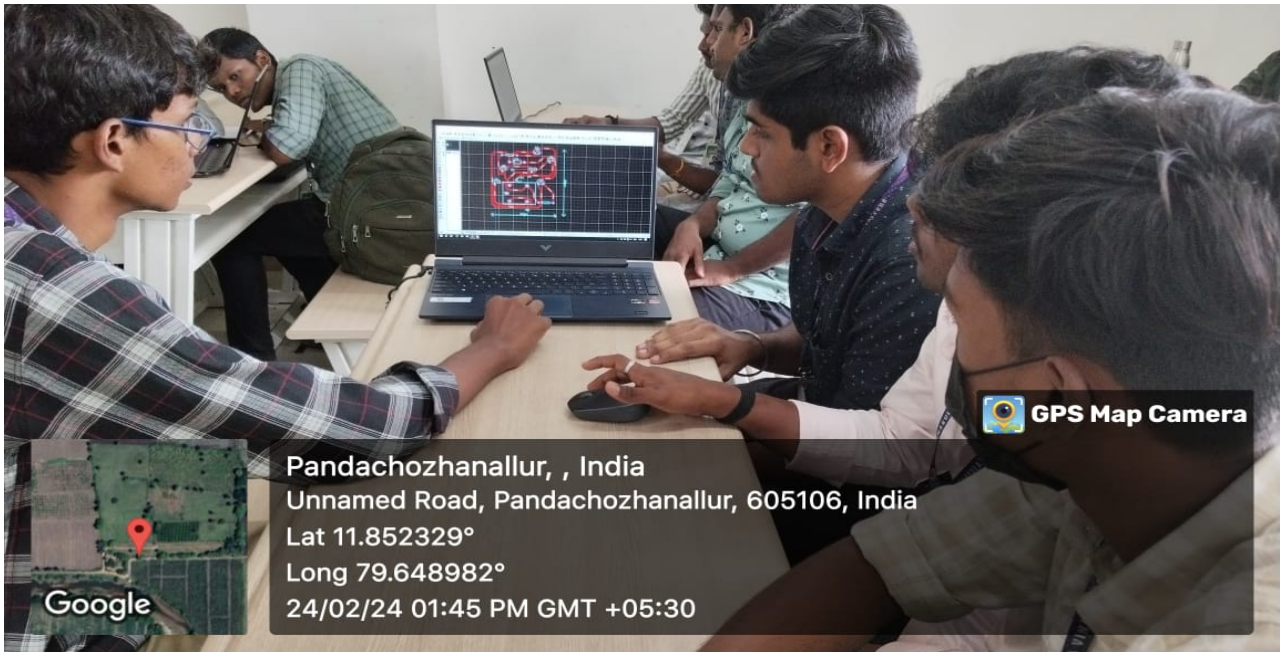


Students are transferring the Marker's Ink layout to the top of Copper Plate.

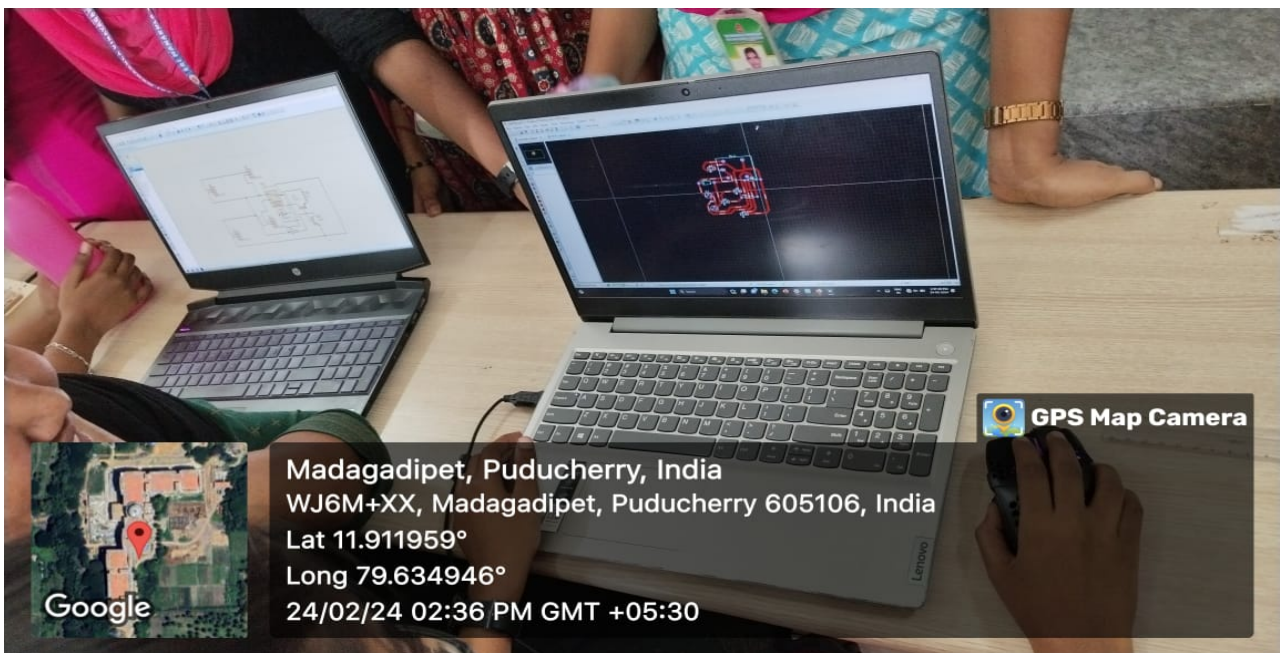


Etching Process through Ferric chloride





Schematic Preparation-Design through PCB software



Third-year students undertook the ambitious task of developing a cutting-edge battery charger circuit, with a collaborative effort by Mr. Parthiban AP/EEE, Mr. Ragupathy AP/EEE.



## Engineering Clinic – Activity Report-12

|               |   |                                         |                            |
|---------------|---|-----------------------------------------|----------------------------|
| Academic Year | : | 2023 – 2024                             |                            |
| Date/Day      | : | 24.02.2024/Saturday                     | Year/Sem/Sec: II/II/ A & B |
| Activities    | : | Design of Power Supply Circuit in a PCB |                            |

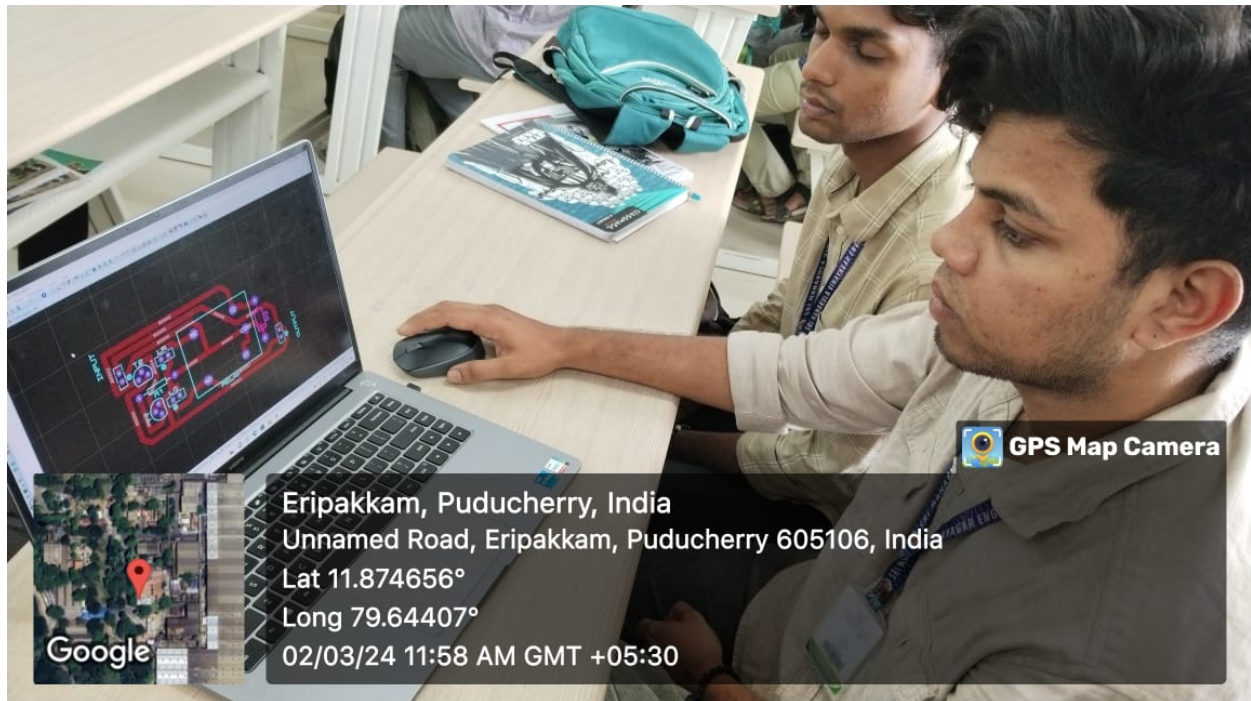


Second-year students exhibited commendable skills in their successful endeavor to design a Power Supply Circuit using a Printed Circuit Board (PCB) with a regulator, Under the guidance of Dr.S.Ganesh Kumaran Asso./Prof, Dr.D.Sivaraj AP/EEE, Mr.A.Janagiraman AP/EE, Mr.G.Rajavel AP/EEE, Mr.S.Vignesh AP/EEE, Mrs.Meena AP/EEE

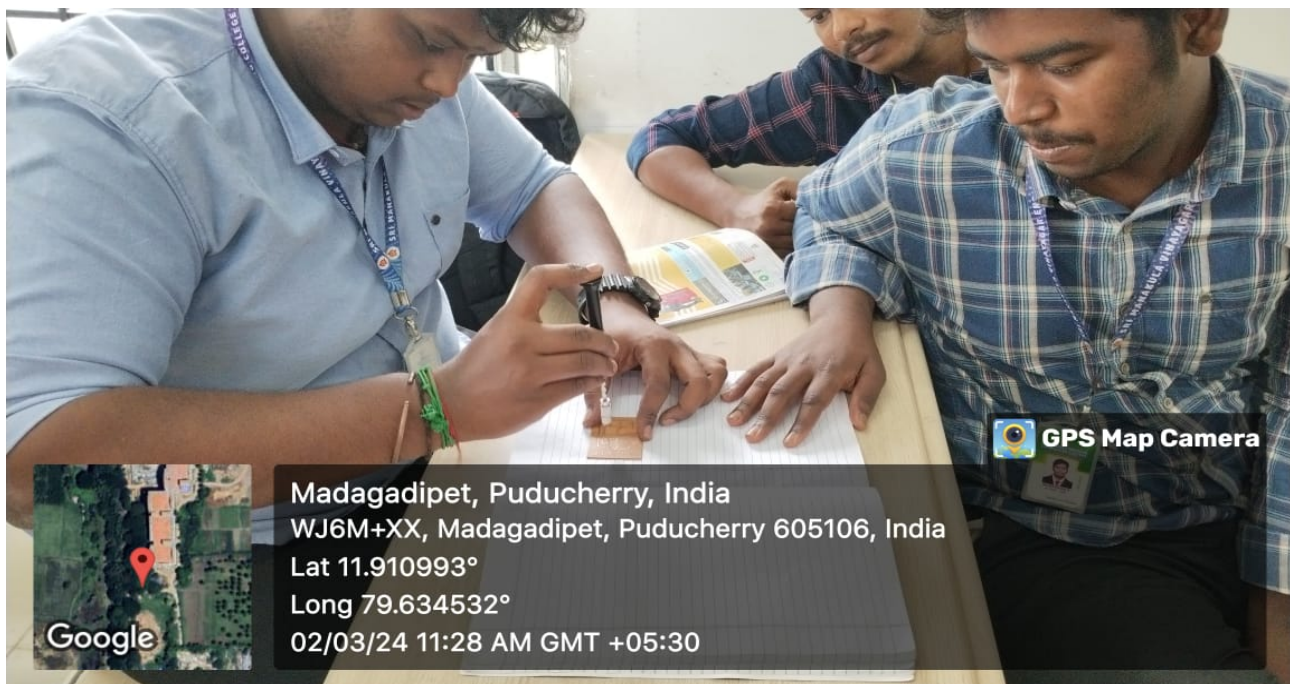


## Engineering Clinic – Activity Report-13

|               |   |                                                |                         |
|---------------|---|------------------------------------------------|-------------------------|
| Academic Year | : | 2023 – 2024                                    |                         |
| Date/Day      | : | 02.03.2024/Saturday                            | Year/Sem/Sec: III/VI/ A |
| Activities    | : | "PCB Development for Battery charging circuit" |                         |



The students are trained for schematic preparation and circuit design using PCB software.



The students are doing the drilling process on PCB to fit a component on to it.





The Students are actively creating a circuit on Copper Plate,



The students have completed the etching process using ferric chloride, a crucial step in circuit board fabrication. This chemical process selectively removes copper from the board.



The third-year students undertook the ambitious task of developing a cutting-edge battery charger circuit, under guidance by Mr. Parthiban AP/EEE, Mrs. Amathullah AP/EEE. The students have gain hands-on experience in designing and assembling a practical electronic circuit, fostering their skills in PCB layout, component selection, and troubleshooting.



## Engineering Clinic – Activity Report-14

|                |   |                                                                         |
|----------------|---|-------------------------------------------------------------------------|
| AcademicYear   | : | 2023 – 2024                                                             |
| Date/Day/Time  | : | 13.03.2024/Saturday / 8.45 a.m to 4.20 p.m                              |
| Year/Sem/Batch | : | IV / VIII / 2020-2024                                                   |
| Activities     | : | Practical Demonstration of Domestic wiring and energy meter connections |



Mr.R.Ragupathy AP/EEE addressed about an Domestic wiring connections and fuse rating calculation and diameter of wiring.



Mr.A.Janagiraman AP/EEE, delivered about the Domestic wiring connections and Procedure to handling multimeter, Energy meter connections.



## Engineering Clinic – Activity Report-15

|              |   |                                                          |                                    |
|--------------|---|----------------------------------------------------------|------------------------------------|
| AcademicYear | : | <b>2023 – 2024</b>                                       |                                    |
| Date/Day     | : | <b>23.03.2024/Saturday</b>                               | <b>Year/Sem/Sec: I/II/ A&amp;B</b> |
| Activities   | : | <b>Troubleshooting of Domestic Electrical appliances</b> |                                    |



Mr. C. Adrien Periyannayagam showcased the internal components of a voltage stabilizer and a mixer, elucidating their intricate mechanisms and functionality.



Mr. K. Thangaraj AP/EEE demonstrated the internal components of a UPS and provided troubleshooting techniques, including battery health checks, connection inspections, load monitoring.





The students disassembled the voltage stabilizer, meticulously extracting its internal components for closer examination and analysis. This hands-on activity provided invaluable insights into the inner workings of the device.



Madagadipet, Puducherry, India  
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Long 79.634645°  
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First-year students had a hands-on training in troubleshooting domestic electrical appliances like mixers and induction stoves under the supervision of Mr. Adrien Periyannayagam, Mr. Thangaraj, Mr. Rajeshkumar, and Mr. Elanthamizh AP/EEE. The students gain practical skills and knowledge in diagnosing and fixing issues with common household electrical appliances.



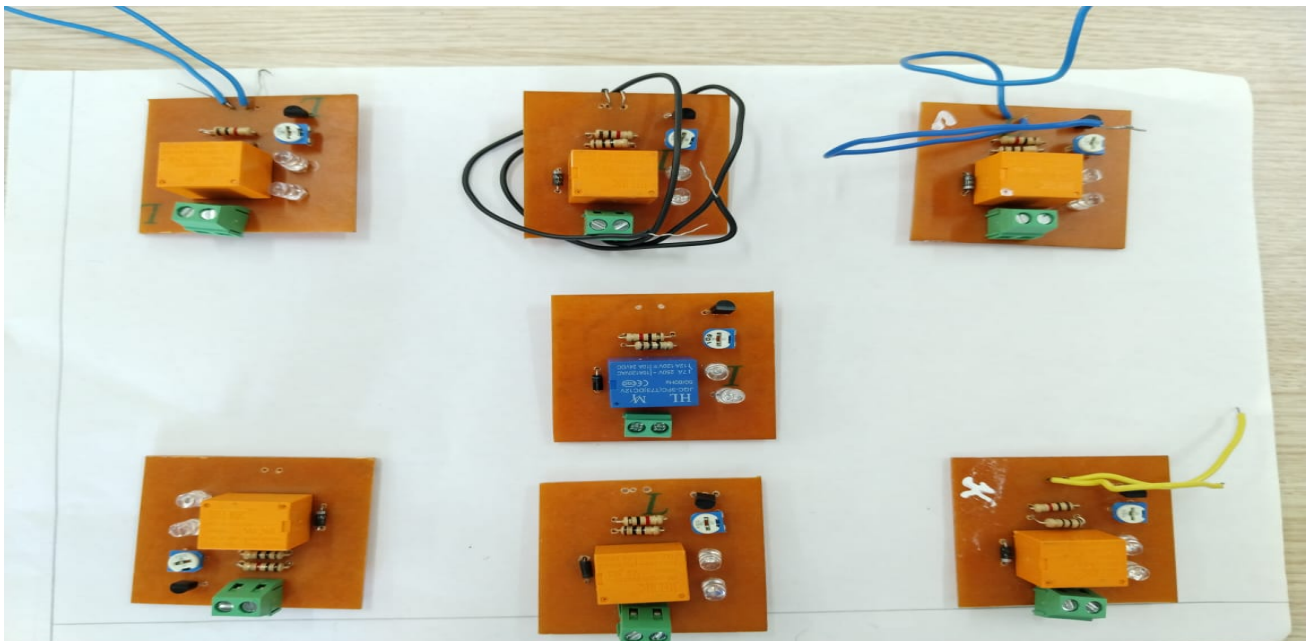
## Engineering Clinic – Activity Report-16

|               |   |                                                |                         |
|---------------|---|------------------------------------------------|-------------------------|
| Academic Year | : | 2023 – 2024                                    |                         |
| Date/Day      | : | 23.03.2024/Saturday                            | Year/Sem/Sec: III/VI/ A |
| Activities    | : | "PCB Development for Battery charging circuit" |                         |



The students are actively soldering wires onto the circuit board, skillfully connecting components to ensure proper functionality.





Third-year Students have done a Printed Circuit Board for a Battery Charging circuit under the guidance of Mr.R. Ragupathy, Mr.J. Gnanavel, and Mrs. Amathullah, Assistant Professors in Electrical and Electronics Engineering. The students have gain hands-on experience in designing and assembling a practical electronic circuit, fostering their skills in PCB layout, component



## Engineering Clinic – Activity Report-17

|               |   |                                                            |                            |
|---------------|---|------------------------------------------------------------|----------------------------|
| Academic Year | : | 2023 – 2024                                                |                            |
| Date/Day      | : | 23.03.2024/Saturday                                        | Year/Sem/Sec: II/IV/ A & B |
| Activities    | : | Design of Serial Light/Function Light in Zero matrix board |                            |

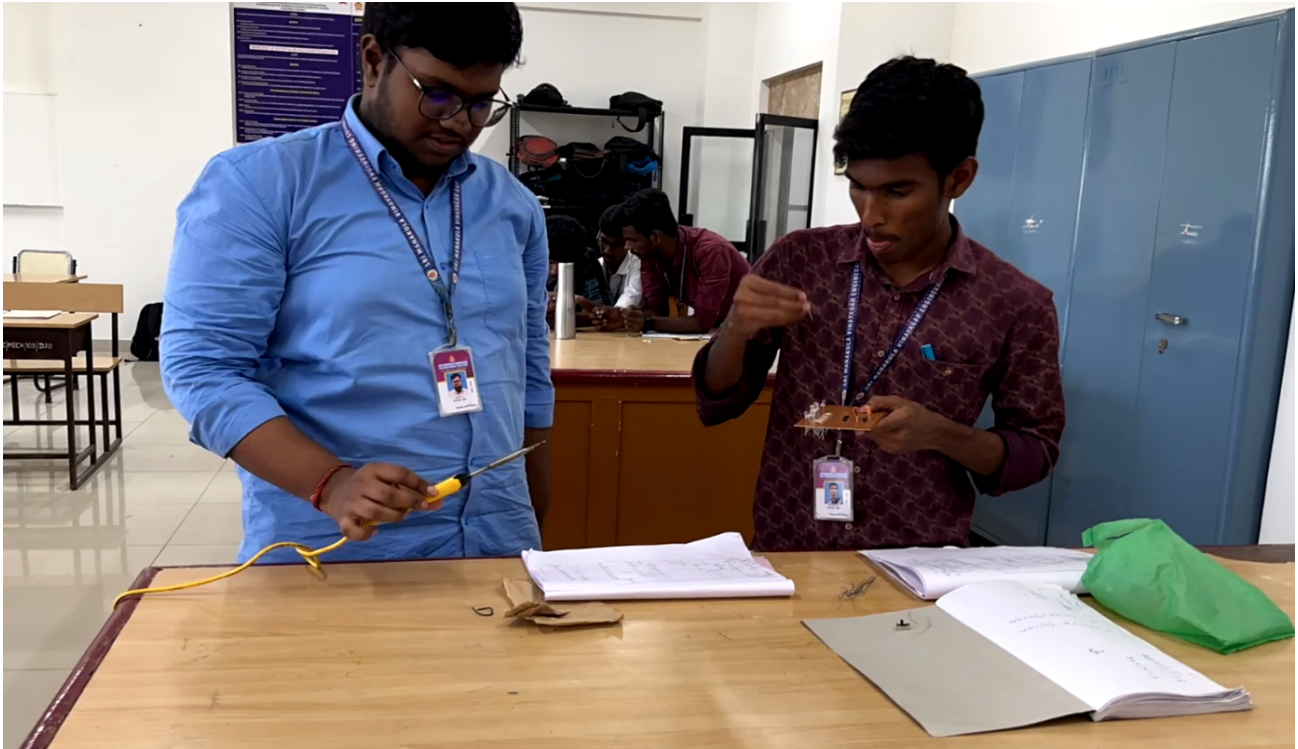


The students are currently designing a circuit board tailored for a function light, meticulously planning the arrangement of components to ensure optimal performance



The soldering process was meticulously executed to assemble the serial light circuit board, ensuring precise connections and seamless integration of components.





The students are assembling components onto a circuit board, carefully positioning and soldering each element to ensure proper functionality.



Second-year students embarked on designing a Serial Light/Function Light system using a Zero matrix board, facilitated by Dr.D.Sivaraj AP/EEE, Mr.G.Rajavel AP/EEE, Mr.S.Vignesh AP/EEE, Mrs.Meena AP/EEE.



## Engineering Clinic – Activity Report-18

|                |   |                                                           |
|----------------|---|-----------------------------------------------------------|
| Academic Year  | : | 2023 – 2024                                               |
| Date/Day/Time  | : | 7.05.2024/Saturday / 9.30 a.m to 1.30 p.m                 |
| Year/Sem/Batch | : | I/ II / 2023-2027                                         |
| Activities     | : | Hands on training in troubleshooting of Laptops and CPU's |



Demonstration of the internal parts like motherboard, RAM, cables, SMPS in Laptops and CPU to the students.



Explanation of various cables and their connection procedure in Laptops & CPU



Description of advanced types of motherboard used for Laptop & CPU



