

M.I.E.T. ENGINEERING COLLEGE, TRICHY

**DEPARTMENT OF ELECTRICAL
AND ELECTRONICS ENGINEERING**

EEE MAGAZINE

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VOLUME 10

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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About us

The Department of Electrical and Electronics Engineering at M.I.E.T. Engineering College was established in 1998 and offers two undergraduate programs: Under-Graduate Programme (B.E) in Electrical and Electronics Engineering and Post-Graduate Programme (M.E) in Power Electronics and Drives. The department has been accredited by the National Board of Accreditation (NBA) and recognized as a Research Department

ent by Anna University. The programs cover subjects such as Electrical Machines, Transmission and Distribution, Electronic Devices and Circuits, Control Systems, Micro Processor and Micro Controllers, and Power System Operation and Control.

The department has well-equipped laboratories, including Electrical Machines Lab, Measurement and Instrumentation Lab, Control Systems Lab, Power Electronics Lab, Power System Simulation Lab, and Renewable Energy Systems Lab. The department also encourages students to organize seminars, workshops, and conferences on advanced areas of Electrical and Electronics Engineering, and invites eminent professors, scientists, technocrats, and industrialists to deliver guest lectures and interact with students.

VISION

- ❖ To be recognized as centre of excellence in Electrical and Electronic Engineering, contribution to the needs of stakeholders.

MISSION

- ❖ To impart quality education through comprehensive exposure, value additions and effective teaching learning process.
- ❖ To facilitate learning environment in view of challenges in the field of Electrical and Electronics Engineering.
- ❖ To provide Platform for students to update the contemporary knowledge with professional quality and commitment to lifelong learning.

MESSAGES

Chairman's Message



Er. A. Mohamed Yunus, B.E., M.Sc.(Engg.)
Chairman

Being the current world not a hasty track, the responsibility of creating a high-quality educational institution is challenging and embellished with a host of initiatives, which validate them over an extended time span. We at M.I.E.T. motivate and empower our students to be enduring learners, critical thinkers and prolific members of an ever-changing global society.

The students are encouraged to channelize their potential in the pursuit of fineness in a holistic and student-centered environment. I am confident that

M.I.E.T. will always guide the fate of its students, while blistering kindness and compassion in its pursuit of academic excellence and the accomplishment of our motto “Humanize, Equalize, Spiritualize”.

Principal's Message



Dr. A. NAVEEN SAIT, M.E., Ph.D.
Principal

M.I.E.T. strives to make a better world through education, Research and innovation, functioning with a motto of accelerating the nation's industrial development through highly skilled and qualified technocrats.

I extend a warm welcome to all students and scholars who choose M.I.E.T. as a preferred destination for higher education and research — a territory of happy learning with great fun and joy, offering ample opportunities for curricular, co-curricular and extra-curricular growth.

The college has modern infrastructure, state-of-the-art laboratories, and well-qualified, dedicated faculty members committed to the complete satisfaction of the student community, and to developing and motivating young talent to meet the challenges they will face after graduation.

GUEST LECTURE

A **One-Day Seminar on “Scope of Technical Software”** was organized for **EEE students** on **28.03.2023** at the **B-Block Seminar Hall**. The seminar was delivered by **Mr. K. Kuralarasan, Mr. K. Vasudevan and Mr. K. Someshwaran**, Business Development Head and Technical Head, **Livewire, Trichy**.



Chief guest delivering address to the students

INDUSTRIAL VISIT

- A **II Year/IV Semester** industrial visit was organized to **Kodaikanal Solar Observatory Museum, Kodaikanal, Tamil Nadu**, on **05.05.2023**. A total of **29 students** participated in the visit and gained practical exposure to solar observation, astronomical instruments and solar-related scientific applications.
- A **III Year/VI Semester** industrial visit was organized to **Ooty** for **2 days, from 24.02.2023 to 25.02.2023**. A total of **50 students (40 boys and 10 girls)** participated in the visit, accompanied by **3 faculty members (2 male and 1 female)**. The students visited the **Radio Astronomy Centre, TATA Institute of Fundamental Research, Ooty**, and **All India Radio, Ooty**, gaining practical exposure to radio astronomy, communication systems, broadcasting technologies, and related industrial applications.



Students visiting the company



Indian Institute of Astrophysics



INTERNSHIP/INPLANT TRAINING ATTENDED BY STUDENTS

1. **P. Nagarjune** underwent **Control Systems Training** at **SD Pro Solutions** from **28.10.2022 to 31.10.2022**.
2. **D. Dhivya Sri** underwent **Control Systems Training** at **SD Pro Solutions** from **28.10.2022 to 31.10.2022**.
3. **P. Harish** underwent **Window Server Management Training** at **CADD Centre Livewire** on **15.10.2022**.
4. **P. Mohamed Irfan** underwent **Window Server Management Training** at **CADD Centre Livewire** on **15.10.2022**.

5. **E. Alen Joy** underwent **Embedded Systems Training** at **SD Pro Solutions** from **02.11.2022 to 05.11.2022**.
6. **M. Sanjeeth** underwent **Embedded Systems Training** at **SD Pro Solutions** from **02.11.2022 to 05.11.2022**.
7. **E. Bagapriyan** underwent **Embedded Systems Training** at **SD Pro Solutions** from **02.11.2022 to 05.11.2022**.
8. **P. Hariharan** underwent **Embedded Systems Training** at **SD Pro Solutions** from **02.11.2022 to 05.11.2022**.
9. **E. Bagapriyan** underwent **Embedded Systems Training** at **SD Pro Solutions** from **02.11.2022 to 05.11.2022**.
10. **P. Harish** underwent **Embedded Systems Training** at **SD Pro Solutions** from **02.11.2022 to 05.11.2022**.
11. **A. Syed Khan** underwent **IT Project Training** at **CADD Centre Livewire** on **15.10.2022**.
12. **K. Siva Sankar** underwent **IT Project Training** at **CADD Centre Livewire** on **15.10.2022**.
13. **D. Mohammed Ismail** underwent **IT Project Training** at **CADD Centre Livewire** on **15.10.2022**.
14. **M. S. Sadik Ali** underwent **IT Project Training** at **CADD Centre Livewire** on **15.10.2022**.
15. **N. Mohamed Hany** underwent **IT Project Training** at **CADD Centre Livewire** on **15.10.2022**.
16. **S. Mohamed Irfan** underwent **IT Project Training** at **CADD Centre Livewire** on **15.10.2022**.

STUDENT PUBLICATIONS IN JOURNALS & CONFERENCES

1. **K. Bhuvanesari** presented/published the paper titled **“Machine Learning based Secure and Efficient Renewable Energy Model for Power Inverter Application”** in **MEST-23** in **June 2023**.
2. **B. Suriyamoorthi** presented/published the paper titled **“Multi Output DC-DC Converter for Electric Vehicle Application with Battery Protection and Monitoring”** in **MEST-23** in **June 2023**.

3. **K. Parthiban** presented/published the paper titled **“Design of Integrated SEPIC-CUK Converter for Renewable Energy Resources”** in MEST-23 in June 2023.
4. **B. Prakash** presented/published the paper titled **“Off Board Electric Vehicle Battery Charger using PV Array”** in MEST-23 in June 2023.
5. **A. Prince Kiruthika** presented/published the paper titled **“PV Operated BLDC Based Modified SEPIC Converter”** in MEST-23 in June 2023.
6. **S. Nirmal Kumar** presented/published the paper titled **“Design and Implementation of an Intelligent Low Cost IoT Solution for Energy Monitoring of Photovoltaic Stations”** in MEST-23 in June 2023.

STUDENTS PARTICIPATION IN MOOC/NPTEL/SELF LEARNING COURSES

1. Abishegan D (Register No. 812420105302) participated in the Naan Mudhalvan course on “5G Network IoT.”
2. Abivarshan R (Register No. 812420105303) participated in the Naan Mudhalvan course on “5G Network IoT.”
3. GulzarAhamed B (Register No. 812420105312) participated in the Naan Mudhalvan course on “5G Network IoT.”
4. Shaiksalman S (Register No. 812420105335) participated in the Naan Mudhalvan course on “5G Network IoT.”
5. Sheik Dawood S (Register No. 812420105336) participated in the Naan Mudhalvan course on “5G Network IoT.”
6. Ranjith Kumar N. (Register No. 812419105023) participated in the Naan Mudhalvan course on “Analog Circuits.”
7. Mohamed Riyas M. (Register No. 812419105016) participated in the Naan Mudhalvan course on “Analog Circuits.”
8. Ajithkumar S. (Register No. 812419105302) participated in the Naan Mudhalvan course on “Analog Circuits.”
9. Mohamed Musaraf B. (Register No. 812419105307) participated in the Naan Mudhalvan course on “Analog Circuits.”
10. Mohamed Ashik J. (Register No. 812419105308) participated in the Naan Mudhalvan course on “Analog Circuits.”
11. Manoj R (Register No. 812420105007) participated in the Naan Mudhalvan course on “Basic Course to Biomedical Research.”

12. Abinash S. (Register No. 812419105002) participated in the Naan Mudhalvan course on “Basic Electronics.”
13. Anwar Basha A. (Register No. 812419105710) participated in the Naan Mudhalvan course on “Basic Electronics.”
14. Thirugnanam S. (Register No. 812419105709) participated in the Naan Mudhalvan course on “Basic Electronics.”
15. Vengatesh P. (Register No. 812419105706) participated in the Naan Mudhalvan course on “Basic Electronics.”
16. Rohith R. (Register No. 812419105310) participated in the Naan Mudhalvan course on “Basic Electronics.”
17. AaishaSidhika H. (Register No. 812419105001) participated in the Naan Mudhalvan course on “Basic Electronics.”
18. Remina A. (Register No. 812419105024) participated in the Naan Mudhalvan course on “Biomedical Signal Processing.”
19. Dhivya Sri D. (Register No. 812419105701) participated in the Naan Mudhalvan course on “Biophotonics.”
20. Santhosh V. (Register No. 812419105707) participated in the Naan Mudhalvan course on “Biophotonics.”
21. Saktheswarar P. (Register No. 812419105311) participated in the Naan Mudhalvan course on “Cloud Computing and Distribution System.”
22. Prabu K. (Register No. 812419105708) participated in the Naan Mudhalvan course on “Communication Networks.”
23. Mohamed Irfan P. (Register No. 812419105015) participated in the Naan Mudhalvan course on “Design and Analysis of VLSI.”
24. Sudhakar A. (Register No. 812419105703) participated in the Naan Mudhalvan course on “Digital Electronic Circuits.”
25. Sebeastinalwinraj S. (Register No. 812419105026) participated in the Naan Mudhalvan course on “Digital Protection of Power System.”
26. Mohamed Hany N (Register No. 812420105008) participated in the Naan Mudhalvan course on “Electric Vehicle.”
27. Mohamed Mukthar R (Register No. 812420105010) participated in the Naan Mudhalvan course on “Electric Vehicle.”
28. Vigneshwaran M (Register No. 812420105019) participated in the Naan Mudhalvan course on “Electric Vehicle.”

29. Anusuya K (Register No. 812420105003) participated in the Naan Mudhalvan course on “Electrical Machines-II.”
30. Yuvashri G (Register No. 812420105020) participated in the Naan Mudhalvan course on “Electrical Machines-II.”
31. Bhavadharini L (Register No. 812420105308) participated in the Naan Mudhalvan course on “Electrical Machines-II.”
32. Dhinesh Kumar S (Register No. 812420105311) participated in the Naan Mudhalvan course on “Electrical Machines-II.”
33. Keerthi Kumar S (Register No. 812420105316) participated in the Naan Mudhalvan course on “Electrical Machines-II.”
34. Kumaran A (Register No. 812420105318) participated in the Naan Mudhalvan course on “Electrical Machines-II.”
35. Mohamed Sikkandar A (Register No. 812420105324) participated in the Naan Mudhalvan course on “Electrical Machines-II.”
36. Rajasekar L (Register No. 812420105328) participated in the Naan Mudhalvan course on “Electrical Machines-II.”
37. Suriya T (Register No. 812420105340) participated in the Naan Mudhalvan course on “Electrical Machines-II.”
38. Vijay R. (Register No. 812419105704) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
39. Abdul Jamees J (Register No. 812420105001) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
40. Arshath Mohamed P (Register No. 812420105004) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
41. Prabakaran V (Register No. 812420105012) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
42. Saadiq Ali M.S (Register No. 812420105014) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
43. Sriramkumar R. (Register No. 812420105015) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
44. Syeedkhan A (Register No. 812420105016) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
45. Thirumurugan S (Register No. 812420105017) participated in the Naan Mudhalvan course on “Electrical Vehicle.”

46. Akash A (Register No. 812420105304) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
47. Ragunathan U (Register No. 812420105327) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
48. ShaikMajid S (Register No. 812420105334) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
49. Shifaeth Ali S (Register No. 812420105337) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
50. SuriyaPrakash B (Register No. 812420105341) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
51. Julieclinta J (Register No. 812420105005) participated in the Naan Mudhalvan course on “Electrical Vehicle.”
52. Lakshmi V (Register No. 812420105006) participated in the Naan Mudhalvan course on “Electrical Vehicle Control Engineering.”
53. Nivedha K (Register No. 812420105011) participated in the Naan Mudhalvan course on “Electrical Vehicle Control Engineering.”
54. Rajasri R (Register No. 812420105013) participated in the Naan Mudhalvan course on “Electrical Vehicle Control Engineering.”
55. Varshini V (Register No. 812420105018) participated in the Naan Mudhalvan course on “Electrical Vehicle Control Engineering.”
56. Veeramanikandan G (Register No. 812420105343) participated in the Naan Mudhalvan course on “Electrical Vehicle Control Engineering.”
57. Nagarjune P. (Register No. 812419105019) participated in the Naan Mudhalvan course on “Electrical Vehicles.”
58. Sanjeeth M. (Register No. 812419105025) participated in the Naan Mudhalvan course on “Electronic Waste Management.”
59. Jayaseelan K. (Register No. 812419105305) participated in the Naan Mudhalvan course on “Embedded System Design.”
60. Narayanamoorthi M. (Register No. 812419105309) participated in the Naan Mudhalvan course on “Embedded System Design.”
61. Vasikaran E. (Register No. 812419105313) participated in the Naan Mudhalvan course on “Embedded System Design.”
62. Gayathri S.P. (Register No. 812419105501) participated in the Naan Mudhalvan course on “Embedded System Design.”

63. Janani T. (Register No. 812419105011) participated in the Naan Mudhalvan course on “Embedded System Design.”
64. Priyadharshini G. (Register No. 812419105020) participated in the Naan Mudhalvan course on “Embedded System Design.”
65. Pugalendhi T. (Register No. 812419105021) participated in the Naan Mudhalvan course on “Embedded System Design.”
66. Bagapriyan E. (Register No. 812419105005) participated in the Naan Mudhalvan course on “Embedded System Design.”
67. Thameemrashdh R. (Register No. 812419105030) participated in the Naan Mudhalvan course on “Embedded System.”
68. Menaka G. (Register No. 812419105702) participated in the Naan Mudhalvan course on “Embedded System Design.”
69. Kumaresan S. (Register No. 812419105014) participated in the Naan Mudhalvan course on “Embedded System Design.”
70. Alen Joy E. (Register No. 812419105004) participated in the Naan Mudhalvan course on “Embedded System, Machines-II.”
71. Poorani P (Register No. 812420105325) participated in the Naan Mudhalvan course on “Ethical Hacking.”
72. Sangavi M (Register No. 812420105330) participated in the Naan Mudhalvan course on “Fundamentals of Power Electronics.”
73. Seenivasan S. (Register No. 812419105027) participated in the Naan Mudhalvan course on “Fundamentals of Power Electronics.”
74. Vidhya V. (Register No. 812419105705) participated in the Naan Mudhalvan course on “Fundamentals of Power Electronics and Embedded System.”
75. Saravanakumar A (Register No. 812420105331) participated in the Naan Mudhalvan course on “Introduction to Embedded System Design.”
76. Anwar Hussain S (Register No. 812420105305) participated in the Naan Mudhalvan course on “MATLAB Programming.”
77. Mohammed Anas C.A. (Register No. 812419105017) participated in the Naan Mudhalvan course on “Microsensor.”
78. Hariharan S. (Register No. 812419105007) participated in the Naan Mudhalvan course on “Power System Design.”
79. Harish P. (Register No. 812419105008) participated in the Naan Mudhalvan course on “Power System Engineering.”

80. Irudhayanelson S. (Register No. 812419105010) participated in the Naan Mudhalvan course on “Power System Engineering.”
81. Hariharan P. (Register No. 812419105304) participated in the Naan Mudhalvan course on “Power System Engineering.”
82. Mohamed Irfan (Register No. 812420105322) participated in the Naan Mudhalvan course on “Power System Engineering.”
83. Sivasankar K (Register No. 812420105338) participated in the Naan Mudhalvan course on “Power System Engineering.”
84. AtchayaDeepan J (Register No. 812420105306) participated in the Naan Mudhalvan course on “Power System Engineering.”
85. Ram Kumar G (Register No. 812420105329) participated in the Naan Mudhalvan course on “Robotics and Control.”
86. Ubayathulla As (Register No. 812420105342) participated in the Naan Mudhalvan course on “Robotics and Control.”
87. Dinesh P (Register No. 812420105501) participated in the Naan Mudhalvan course on “Smart Grid.”
88. Stephan T (Register No. 812420105339) participated in the Naan Mudhalvan course on “Smart Grid.”
89. Mohamed Ismail D. (Register No. 812420105009) participated in the Naan Mudhalvan course on “Smart Grid Basics of Advanced Techno.”
90. Hariharan L (Register No. 812420105313) participated in the Naan Mudhalvan course on “Smart Grid Basics of Advanced Techno.”
91. Kesavan B (Register No. 812420105317) participated in the Naan Mudhalvan course on “Smart Grid Basics of Advanced Techno.”
92. Mohamed A (Register No. 812420105320) participated in the Naan Mudhalvan course on “Smart Grid Basics of Advanced Techno.”
93. Mohamed Hussain A (Register No. 812420105321) participated in the Naan Mudhalvan course on “Smart Grid Basics of Advanced Techno.”
94. Praveen Kumar R (Register No. 812420105326) participated in the Naan Mudhalvan course on “Smart Grid Basics of Advanced Techno.”
95. Student Abdul Jamees J (Register No. 812420105001) successfully completed the course on “Augmented Reality and Virtual Reality” offered under the Naan Mudhalvan Programme.

96. Student Abdulrahman B (Register No. 812420105002) successfully completed the course on “Augmented Reality and Virtual Reality” offered under the Naan Mudhalvan Programme.
97. Student Manoj R (Register No. 812420105007) successfully completed the course on “Augmented Reality and Virtual Reality” offered under the Naan Mudhalvan Programme.
98. Student Sangavi M (Register No. 812420105330) successfully completed the course on “Augmented Reality and Virtual Reality” offered under the Naan Mudhalvan Programme.
99. Student Sivasankar K (Register No. 812420105338) successfully completed the course on “Augmented Reality and Virtual Reality” offered under the Naan Mudhalvan Programme.

PROJECTS OF STUDENTS

- The project titled “Self-Charging Electric Bike” was carried out by **Harish P (Register No. 812419105008), Mohamed Irfan P (Register No. 812419105015), Mohammed Anas C A (Register No. 812419105017), and Sanjeeth M (Register No. 812419105025)** under the guidance of **B. Muthuslevi**.
- The project titled “Non-intrusive Load Monitoring Using Machine Learning for Household Appliances with IoT” was carried out by **Aaisha Sidhika H (Register No. 812419105001), Janani T (Register No. 812419105011), and Remina A (Register No. 812419105024)** under the guidance of **D. Tamilselvan**.
- The project titled “Optimizing Substation Using PLC and SCADA” was carried out by **Abinash S (Register No. 812419105002), Alen Joy E (Register No. 812419105004), Pugalendhi T (Register No. 812419105021), and Thameemrashdh R. (Register No. 812419105030)** under the guidance of **Dr. E. Muthukumaran**.
- The project titled “Implementation of Modified SEPIC DC-DC Converter in DC Microgrid Application” was carried out by **Hariharan S (Register No. 812419105007), Irudhaya Nelson S (Register No. 812419105010), Sebeastin Alwinraj S (Register No. 812419105026), and Hariharan P (Register No. 812419105304)** under the guidance of **B. Muthuslevi**.
- The project titled “IoT Based Energy Meter Reading for Auto Billing” was carried out by **Priyadharshini G (Register No. 812419105020), Menaka G (Register No. 812419105702), and Vidhya V (Register No. 812419105705)** under the guidance of **Dr. V. Sivakami**.
- The project titled “SEPIC PFC for Three Phase Induction Motor Drive under Normal and Abnormal Supply Voltage” was carried out by **Charulatha G (Register No. 812419105303),**

Gayathri S P (Register No. 812419105501), and Dhivya Sri D (Register No. 812419105701) under the guidance of **T. Jayanthi**.

- The project titled **“IoT Based Load Monitoring and Control System”** was carried out by **Anwar Basha A (Register No. 812419105710), Mohamed Musaraf B (Register No. 812419105307), Mohamed Ashik J (Register No. 812419105308), and Narayanamoorthi M (Register No. 812419105309)** under the guidance of **S. Pandiarajan**.
- The project titled **“Modernized Rail Flaw Detection Using Robot”** was carried out by **Jayaseelan K (Register No. 812419105305), Rohith R (Register No. 812419105310), Saktheswarar P (Register No. 812419105311), and Vijay R (Register No. 812419105704)** under the guidance of **K. Sarasvathi**.
- The project titled **“Two-Stage Converter Stand-alone PV Battery System Based on VSG Control”** was carried out by **Sudhakar A (Register No. 812419105703), Prabu K (Register No. 812419105708), and Vasikaran E (Register No. 812419105313)** under the guidance of **D. Jayaraj**.
- The project titled **“Battery Management in Electrical Vehicles Using Machine Learning Techniques”** was carried out by **Santhosh V (Register No. 812419105707), Vengatesh P (Register No. 812419105706), and Ajithkumar S (Register No. 812419105302)** under the guidance of **Dr. S. Sarojini Mary**.
- The project titled **“Power Generation Using Ball Perpetual Turbine”** was carried out by **Bagapriyan E (Register No. 812419105005), Kumaresan S (Register No. 812419105014), Nagarjune P (Register No. 812419105019), and Seenivasan S (Register No. 812419105027)** under the guidance of **Dr. E. Muthukumaran**.
- The project titled **“Solar Tree-Based Energy Harvesting, Tracking, and Fault Detection System Using IoT”** was carried out by **Mohamed Riyas M (Register No. 812419105016), Ranjithkumar N (Register No. 812419105023), and Thirugnanam S (Register No. 812419105709)** under the guidance of **D. Tamilselvan**.

FACULTY AS RESOURCE PERSON

- **Dr. V. Sivakami** participated in the **Workshop on “Internet of Things and Sensor Networks”** held on **23.06.2022** at the **National Institute of Technology, Trichy**.
- **Mr. D. Jayaraj** participated in the **Science Robotics Expo** held on **02.06.2023** at **Trichy**, organized by **The Almighty’s Matriculation School**.

- **Mrs. B. Muthuselvi** participated in the **Seminar on Recent Trends in Industrial Process Automation** held on **08.02.2023** at the **National Institute of Technology, Trichy**.

FACULTY PUBLICATION/CONFERENCE/BOOK PUBLICATIONS

1. **D. Tamilselvan** presented a conference paper titled “**Machine Learning Based Secure and Efficient Renewable Energy Model for Power Inverter Application**” at the **National Conference on Multidisciplinary Engineering Science and Technology (MEST-23)** in **June 2023**.
2. **Dr. V. Sivakami** presented a conference paper titled “**Multi Output DC-DC Converter for Electric Vehicle Application with Battery Protection and Monitoring**” at **MEST-23** in **June 2023**.
3. **Dr. E. Muthukumaran** presented a conference paper titled “**Design of Integrated SEPIC-CUK Converter for Renewable Energy Resources**” at **MEST-23** in **June 2023**.
4. **Dr. V. Sivakami** presented a conference paper titled “**Off Board Electric Vehicle Battery Charger Using PV Array**” at **MEST-23** in **June 2023**.
5. **Mrs. B. Muthuselvi** presented a conference paper titled “**PV Operated BLDC Based Modified SEPIC Converter**” at **MEST-23** in **June 2023**.
6. **Dr. S. Sarojini Mary** presented a conference paper titled “**Design and Implementation of an Intelligent Low-Cost IoT Solution for Energy Monitoring of Photovoltaic Stations**” at **MEST-23** in **June 2023**.

FACULTY PARTICIPATION IN NPTEL/MOOC COURSES

- **Dr. E. Muthukumaran**, who participated in the “**NBA Accreditation and Teaching & Learning Engineering**” programme organized by **NPTEL**, from **January 2023 to April 2023**.
- **Mr. D. Tamilselvan**, who participated in the “**NBA Accreditation and Teaching & Learning Engineering**” programme organized by **NPTEL**, from **January 2023 to April 2023**.
- **Mr. B. Muthuselvi**, who participated in the “**Electric Vehicles**” programme organized by **NPTEL**, from **January 2023 to April 2023**.
- **Mr. S. Pandiarajan**, who participated in the “**Electric Vehicles**” programme organized by **NPTEL**, from **January 2023 to April 2023**.

- **Mrs. T. Jayanthi**, who participated in the “Recent Trends and Innovation in Electric Vehicles” programme organized by **Sri Krishna College of Technology, Coimbatore**, from **30.01.2023 to 03.02.2023**.
- **Mrs. K. Sarasvathi**, who participated in the “Recent Trends and Innovation in Electric Vehicles” programme organized by **Sri Krishna College of Technology, Coimbatore**, from **30.01.2023 to 03.02.2023**.
- **Mrs. T. Jayanthi**, who participated in the “Design of Photo Voltaic System” programme organized by **Saranathan College of Engineering, Trichy**, from **06.02.2023 to 10.02.2023**.

FACULTY CONFERENCE PAPER

- **B. Muthuselvi** presented the paper titled “Design and Implementation of Grid Connected System Using ZETA Inverter with ANFIS System” at the **International Conference on Research Advances in Communication, Computation, Electrical Science and Structure** in **June 2022**.

MOU'S SIGNED WITH PROFESSIONAL COMPANIES

- An MoU was signed with **IPCS Global Solutions (Global View Automation & Technologies), Trichy**, on **20.05.2022** for Skill Enhancement Programmes, Hands-on Training, Lab Facilities, Guest Lectures, Value Added Courses and related activities. **Since the date is before June 2022, this should not be included in June–December 2022.**
- Similarly, the MoUs with **LIFT INDIA** and **Ashok Leyland Limited**, both dated **20.05.2022**, are also outside the June–December 2022 range.
- **Important:** The **Research Sponsored Work** and **Consultancy** entries you gave do not have a specific starting date/month, so I have **not included them** in the June–December 2022 section.

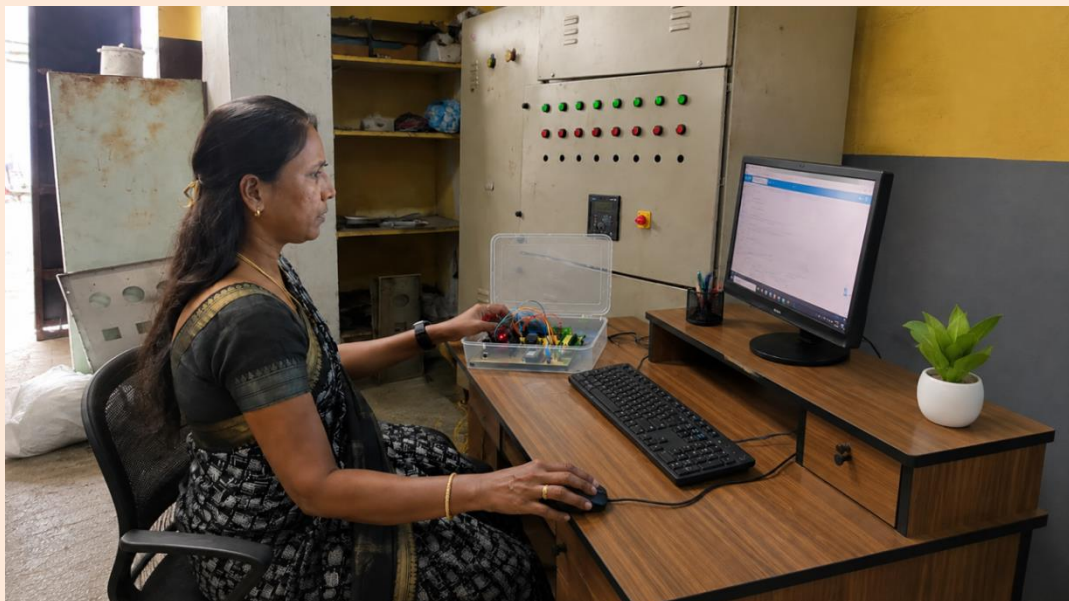
MOU'S SIGNED WITH PROFESSIONAL BODIES

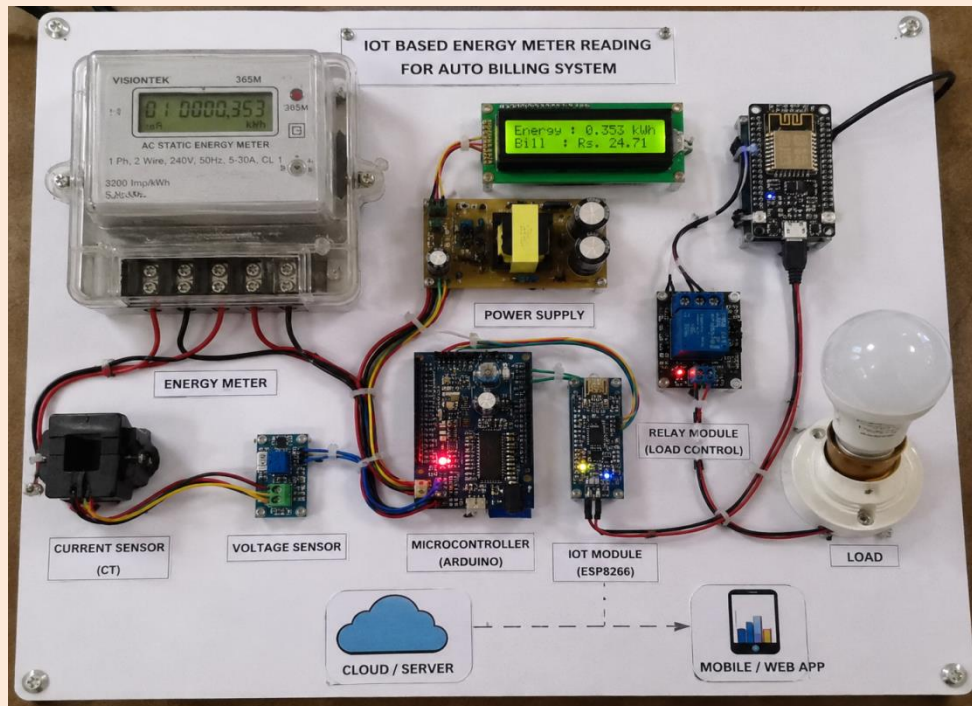
- An MoU was signed with **IPCS Global Solutions (Global View Automation & Technologies), Trichy**, on **20.05.2022** for Skill Enhancement Programmes, Hands-on Training, Lab Facilities, Guest Lectures, Value Added Courses, and other academic and industry-oriented activities.

- An MoU was signed with LIFT INDIA (Life Intensive Formation of Trust), Trichy, on 20.05.2022 to facilitate academic and skill development activities.
- An MoU was signed with Ashok Leyland Limited, Hosur, on 20.05.2022 to facilitate industry–institution collaboration and related academic and technical activities.

RESEARCH SPONSORED WORK

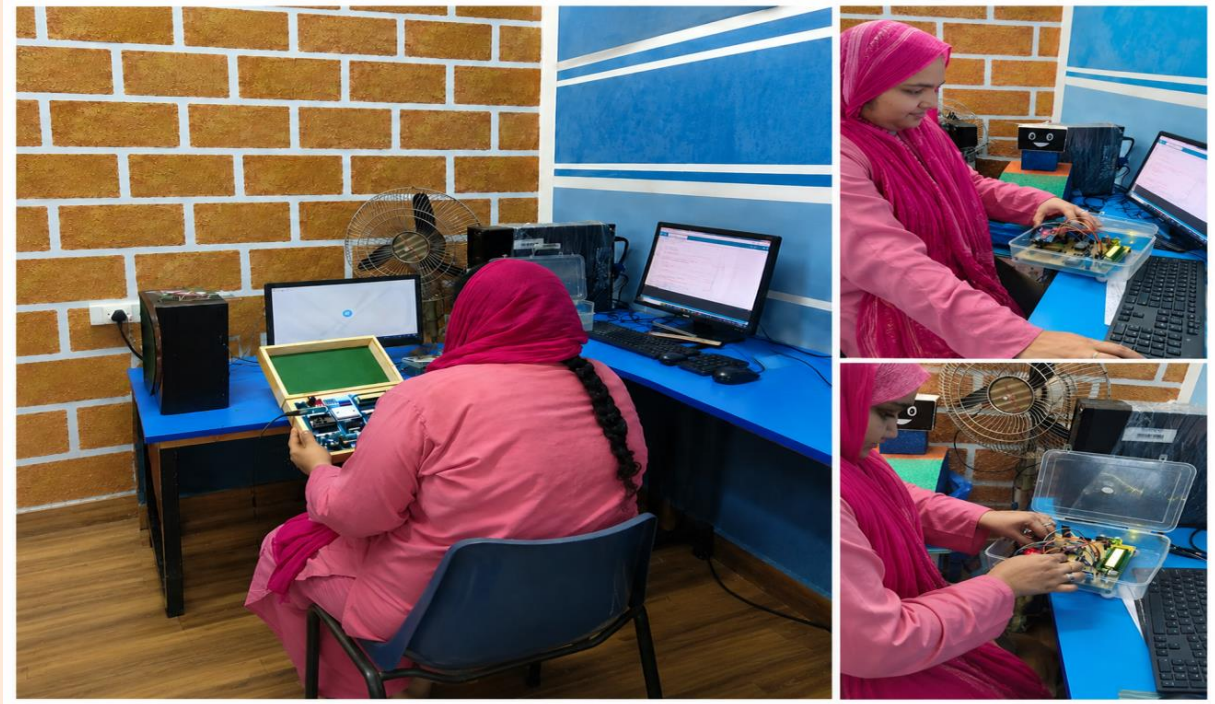
1. **Mrs. K. Saravathi**, Principal Investigator from the **EEE Department**, carried out the sponsored research project titled “**Modernized Rail Flaw Detection using Robot**”, funded by **AVM Engineering Industry, Coimbatore**, for a duration of **6 months** with a sanctioned amount of **₹2,00,000**.
2. **Dr. V. Sivakami**, Principal Investigator from the **EEE Department**, carried out the sponsored research project titled “**IoT Based Energy Meter Reading for Auto Billing**”, funded by **Sri Chellam Industries**, for a duration of **6 months** with a sanctioned amount of **₹1,00,000**.





CONSULTANCY WORKS

1. **Mr. D. Tamilselvan**, Principal Investigator, along with **Mrs. T. Jayanthi**, Co-Principal Investigator, carried out the consultancy project titled “**Efficient Pumping Solutions for Sustainable Water Management**” for **AVM Engineering Industries** for a duration of **1 year**, with a consultancy amount of **₹2,00,000**.
2. **Dr. E. Muthukumaran**, Principal Investigator, along with **Mrs. J. Sherrin Banu**, Co-Principal Investigator, carried out the consultancy project titled “**High Reactive Power Compensation Accuracy for Cascaded H-Bridge Inverter**” for **Marcello Tech** for a duration of **3 years**, with a consultancy amount of **₹3,00,000**.



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