

M.I.E.T. ENGINEERING COLLEGE
(AUTONOMOUS)
TRICHY

DEPARTMENT OF ELECTRICAL
AND
ELECTRONICS ENGINEERING

EEE MAGAZINE
2K23

VOLUME 11

ISSUE 1



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE MAGAZINE 2K23 VOLUME-11, ISSUE-1

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 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.

DEPARTMENT ACTIVITIES

STUDENT PARTICIPATION IN PROFESSIONAL EVENTS

- **M. Vasith Rahuman** participated in the **AR/VR Workshop** organized by **SSN College of Engineering, Chennai**, at the **State level** on **06.10.2023 and 07.10.2023**.
- **M. Mohamed Jameel** participated in the **AR/VR Workshop** organized by **SSN College of Engineering, Chennai**, at the **State level** on **06.10.2023 and 07.10.2023**.
- **M. Jagadeeswaran** participated in the **AR/VR Workshop** organized by **SSN College of Engineering, Chennai**, at the **State level** on **06.10.2023 and 07.10.2023**.
- **S. Nishvanth** participated in the **AR/VR Workshop** organized by **SSN College of Engineering, Chennai**, at the **State level** on **06.10.2023 and 07.10.2023**.
- **R. Mohamed Aqil** participated in the **AR/VR Workshop** organized by **SSN College of Engineering, Chennai**, at the **State level** on **06.10.2023 and 07.10.2023**.
- **S. Karthikeyan** participated in the **AR/VR Workshop** organized by **SSN College of Engineering, Chennai**, at the **State level** on **06.10.2023 and 07.10.2023**.
- **F. Mohamed Zaidh** participated in the **Extempore Speech** event organized by **Sathish Dhawan Space Centre, SHAR, ISRO, Sriharikota**, at the **State level** from **04.10.2023 to 10.10.2023**.
- **S. Sathik Manzoor** participated in the **Project Demo** event organized by **Sathish Dhawan Space Centre, SHAR, ISRO, Sriharikota**, at the **State level** from **04.10.2023 to 10.10.2023**.
- **M. Vasith Rahuman** participated in the **AR/VR Workshop** organized by **SSN College of Engineering, Chennai**, at the **State level** on **06.10.2023 and 07.10.2023**.
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- **S. Sathik Manzoor** participated in the **Project Demo** event organized by **Sathish Dhawan Space Centre, SHAR, ISRO, Sriharikota**, at the **State level** from **04.10.2023 to 10.10.2023**.
- **J. Julie Clinta** participated in the 5-Day Short Term Course on “**Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice**”, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **L. Bhavadharini** participated in the 5-Day Short Term Course on “**Artificial Intelligence and Machine Learning Techniques for Engineering Applications –**

Theory and Practice", organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.

- **V. Varshini** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice"**, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **K. Nivedha** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice"**, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **G. Yuvashri** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice"**, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **Akash** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice"**, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **L. Hariharan** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice"**, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **S. Anwar Hussain** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice"**, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **S. Dinesh Kumar** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice"**, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **Mohamed Hussain** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications –**

Theory and Practice", organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.

- **S. Karthikeyan** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice"**, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **S. Ponvasanthu** participated in the 5-Day Short Term Course on **"Artificial Intelligence and Machine Learning Techniques for Engineering Applications – Theory and Practice"**, organized by the National Institute of Technology, Puducherry, at the National level from **26.02.2024 to 01.03.2024**.
- **S. Revathi** participated in the National Level Technical Symposium – **DEEKSHI TECHFEST 2024 – Paper Presentation**, organized by Sudharsan Engineering College, Pudukkottai, on **15.03.2024**.
- **S. Revathi** participated in the National Level Technical Symposium – **DEEKSHI TECHFEST 2024 – Technical Quiz**, organized by Sudharsan Engineering College, Pudukkottai, on **15.03.2024**.
- **P. Kalingeswari** participated in the National Level Technical Symposium – **DEEKSHI TECHFEST 2024 – Paper Presentation**, organized by Sudharsan Engineering College, Pudukkottai, on **15.03.2024**.
- **P. Kalingeswari** participated in the National Level Technical Symposium – **DEEKSHI TECHFEST 2024 – Technical Quiz**, organized by Sudharsan Engineering College, Pudukkottai, on **15.03.2024**.
- **R. Ranjani** participated in the National Level Technical Symposium – **DEEKSHI TECHFEST 2024 – Paper Presentation**, organized by Sudharsan Engineering College, Pudukkottai, on **15.03.2024**.
- **R. Ranjani** participated in the National Level Technical Symposium – **DEEKSHI TECHFEST 2024 – Technical Quiz**, organized by Sudharsan Engineering College, Pudukkottai, on **15.03.2024**.
- **N. Ramyadharsini** participated in the National Level Technical Symposium – **DEEKSHI TECHFEST 2024 – Paper Presentation**, organized by Sudharsan Engineering College, Pudukkottai, on **15.03.2024**.

- **N. Ramyadharsini** participated in the National Level Technical Symposium – **DEEKSHI TECHFEST 2024 – Technical Quiz**, organized by Sudharsan Engineering College, Pudukkottai, on **15.03.2024**.
- **K. Sivasankar** secured First Prize in the State Level **Technical Symposium KRYPTO'24**, organized by K. Ramakrishnan College of Engineering, Trichy, on **20.03.2024**.
- **S. Mohamed Irfan** secured **First Prize** in the State Level **Technical Symposium KRYPTO'24**, organized by K. Ramakrishnan College of Engineering, Trichy, on **20.03.2024**.
- **G. Yuvasanthi** participated in the State Level **Technical Symposium KRYPTO'24**, organized by K. Ramakrishnan College of Engineering, Trichy, on **20.03.2024**.
- **Kesavan** secured Second Prize in the State Level **Technical Symposium TECHKNOWSAFE-2K24**, organized by National Fire and Safety College, Karaikudi, on **05.04.2024**.
- **Gulzar Ahamed** secured Second Prize in the State Level **Technical Symposium TECHKNOWSAFE-2K24**, organized by National Fire and Safety College, Karaikudi, on **05.04.2024**.
- **Abishegan** secured Second Prize in the State Level **Technical Symposium TECHKNOWSAFE-2K24**, organized by National Fire and Safety College, Karaikudi, on **05.04.2024**.

LIST OF STUDENTS PARTICIPATED IN PROFESSIONAL EVENTS

- **M. Vasith Rahuman** participated in the **State Level AR/VR Workshop** at SSN College of Engineering, Chennai, on **06.10.2023 and 07.10.2023**.
- **M. Mohamed Jameel** participated in the **State Level AR/VR Workshop** at SSN College of Engineering, Chennai, on **06.10.2023 and 07.10.2023**.
- **M. Jagadeeswaran** participated in the **State Level AR/VR Workshop** at SSN College of Engineering, Chennai, on **06.10.2023 and 07.10.2023**.
- **S. Nishvanth** participated in the **State Level AR/VR Workshop** at SSN College of Engineering, Chennai, on **06.10.2023 and 07.10.2023**.
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- **F. Mohamed Zaidh** participated in the **State Level Extempore Speech** event at Sathish Dhawan Space Centre, SHAR, ISRO, Sriharikota, from **04.10.2023 to 10.10.2023**.
- **S. Sathik Manzoor** participated in the **State Level Project Demo** at Sathish Dhawan Space Centre, SHAR, ISRO, Sriharikota, from **04.10.2023 to 10.10.2023**.

DETAILS OF STUDENT'S PARTICIPATION IN MOOC/SELF LEARNING COURSES

- **Allwin Albert J**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Employability Skills”** course.
- **Anbuselvan S**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Employability Skills”** course.
- **Hanas Sheik Abdullah Q**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Employability Skills”** course.
- **Jagadeeswaran M**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Employability Skills”** course.
- **Karthikayan S**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Employability Skills”** course.
- **Mohamed Aqil R**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Employability Skills”** course.
- **Mohamed Hasan J**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Employability Skills”** course.
- **Mohamed Jameel M**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Employability Skills”** course.

- **Mohamed Newsath Ali A**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Mohamed Rizvan M**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Nelson E**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Nishvanth S**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Ponvasanthu S**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **RamyaDharshini N**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Ranjani R**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Revathi S**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Senthamilselvan S**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Sevakraj P**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Sridhar M**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **VasithRahuman M**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.

- **Vigneshwaran T**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Abdul Jabbar A**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Abdulsiddiq S**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Abusheik K**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Asifmohamed R**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Gowtham M**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Janarthanan G**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Kalingeswari P**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Karthikeyan Ms**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Lawrence G**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Mohamed Faiyaz J**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.

- **Mohamed Rasath S**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Mohamed Sameer S**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Mohamed Yousuf M**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Muthamilan T**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Praveen T**, a Fifth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Employability Skills**” course.
- **Alparvesh Ibrahim**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Microsoft Essentials – Microsoft**” course under the “**Self-Learning Courses (Naan Mudhalvan)**” category.
- **AnshariBasha S**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Microsoft Essentials – Microsoft**” course under the “**Self-Learning Courses (Naan Mudhalvan)**” category.
- **Baskar N**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Microsoft Essentials – Microsoft**” course under the “**Self-Learning Courses (Naan Mudhalvan)**” category.
- **Dhanush B**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Microsoft Essentials – Microsoft**” course under the “**Self-Learning Courses (Naan Mudhalvan)**” category.
- **Harishkumar M**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the “**Microsoft Essentials –**

Microsoft” course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.

- **Kailaskumar V**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Kalantharasan V**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **KamaludeenAhamed H**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Manikandan R**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Mohamed Barvis A**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Mohammedzaidh F**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Navin P**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Pabitha S**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials –**

Microsoft” course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.

- **Pradeesh R**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Pragathiswaran P**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Santhiya R**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Sathick Manzoor S**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Sheik Abdullah S**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Siva V**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Subhashree A**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Surendran B**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials –**

Microsoft” course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.

- **Syed EmadhuDeen M**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Syed Imran S N**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Ushalini R**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Monica A**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.
- **Rogan Prasatham Y**, a Fourth Semester student of the Department of Electrical and Electronics Engineering (EEE), successfully completed the **“Microsoft Essentials – Microsoft”** course under the **“Self-Learning Courses (Naan Mudhalvan)”** category.

GUEST LECTURE

- ❖ A Guest Lecture on **“Electrical AutoCAD”** was organized on **29.08.2023** at the **‘B’ Block Seminar Hall** for the **III Year students of the Department of Electrical and Electronics Engineering (EEE)**. The session was delivered by **Mr. K. VasuDevan, Technical Head, Live Wire, Tiruchirappalli**. The lecture provided students with valuable knowledge about Electrical AutoCAD, its applications in electrical engineering, and the importance of computer-aided design tools in preparing and developing electrical drawings and layouts. The session also helped students gain

practical exposure to industry-relevant design practices and enhance their technical skills.



Mr. K. Vasu Devan, Technical Head, LiveWire, Trichy as the resource person



Inaugural Address by Dr.E. Muthukumaran, HoD/EEE



Interaction with students in Guest lecture



Chief Guest delivering the drawing of electrical components in ELECTRICAL AUTOCAD

- ❖ A Guest Lecture on “Prospects of Shape Memory Alloys in Assistive/Rehabilitation Technology” was organized on 25.09.2023 for the II, III and IV Year students of the Department of Electrical and Electronics Engineering (EEE). The lecture was delivered by Dr. K. Dhanalakshmi, Professor and Head, Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli.



HoD delivering Inaugural address



Dr. K. Dhanalakshmi, NIT Trichy as the resource person

- Guest Lecture on “Recent Trends in Power Generation, Transmission and Distribution” was conducted with Er. S. Samivel, M.E., Assistant Engineer, Kuttalam Gas Power Plant TNEB as the resource person.



Inaugural address by Dr.E. Muthukumaran, HoD/EEE



**Chief Guest address by Er. S. Samivel, M.E., Assistant Engineer,
Kuttalam Gas Power Plant TNEB as the resource person**



Interaction with students in Guest lecture

- Inauguration of IETE Professional Society and One-Day Seminar on “Applications of Motor in Industries & Home Appliances” was conducted on 14.03.2024, with the CEO, AVM Pumps / Director-IQAC, Park College of Engineering and Technology, Coimbatore as the resource person.



Head of the Department addressing the students



Students receiving IETE membership certificate

- Guest Lecture on “Renewable Energy Concepts and Applications in Industry & Domestic Sector” was conducted on 05.04.2024, with Dr. N. Stalin, Anna University – BIT Campus, Trichy as the resource person.



Inaugural Address by Dr.E. Muthukumaran, HoD/EEE



Chief Guest address by Dr. N.Stalin, M.E, Ph.D.

- Guest Lecture on “Maximum Power Point Tracking Techniques in Solar PV Systems” was conducted on 17.04.2024, with Dr. C. Vennila, Alagappa Chettiar Government College of Engineering and Technology, Karaikudi as the resource person.



Inaugural Address by Dr.E. Muthukumaran, HoD/EEE



Chief Guest address by Dr.C.Vennila, M.E, Ph.D.



Interaction with students in Guest lecture

INDUSTRIAL VISIT

- **IV Year – 04.10.2023:** The IV Year students visited **United Electrical Industries Limited, Kollam, Kerala**, to gain practical exposure to electrical equipment manufacturing, industrial operations, testing procedures, and maintenance practices. The industrial visit helped students understand the practical application of electrical engineering concepts in a real-time manufacturing environment.
- **IV Year – 05.10.2023:** The IV Year students visited the **Power Plant at Wonderla, Kochi, Kerala**, to understand the generation and utilization of electrical power in an industrial and commercial environment. The visit provided practical knowledge of power generation, electrical distribution, safety measures, and maintenance practices.
- **IV Year – 06.10.2023:** The IV Year students visited **Kerala Electrical & Allied Engineering, Mamala, Kerala**, to gain industrial exposure to electrical engineering equipment and manufacturing processes. The students observed various production, testing, quality control, and maintenance activities carried out in the industry.



- **III Year – 26.10.2023:** The III Year students visited the **Radio Astronomy Centre, Ooty**, to understand the applications of electrical, electronic, communication, and instrumentation technologies in radio astronomy. The visit provided students with valuable exposure to advanced scientific equipment and real-time technical applications.



- **II Year – 08.12.2023:** The II Year students visited the **Kodaikanal Solar Observatory, Indian Institute of Astrophysics, Kodaikanal**, to gain knowledge about solar observations, scientific instrumentation, and solar research activities. The visit helped students relate their academic concepts with practical applications in astronomy, solar studies, and instrumentation technology.



VALUE ADDED COURSE

- Value Added Course on “Innovative Projects using Arduino and Raspberry Pi” was conducted from 06.09.2023 to 27.10.2023, handled by Mrs. J. Sherrin Banu, Assistant Professor, Department of Electrical and Electronics Engineering, M.I.E.T. Engineering College.



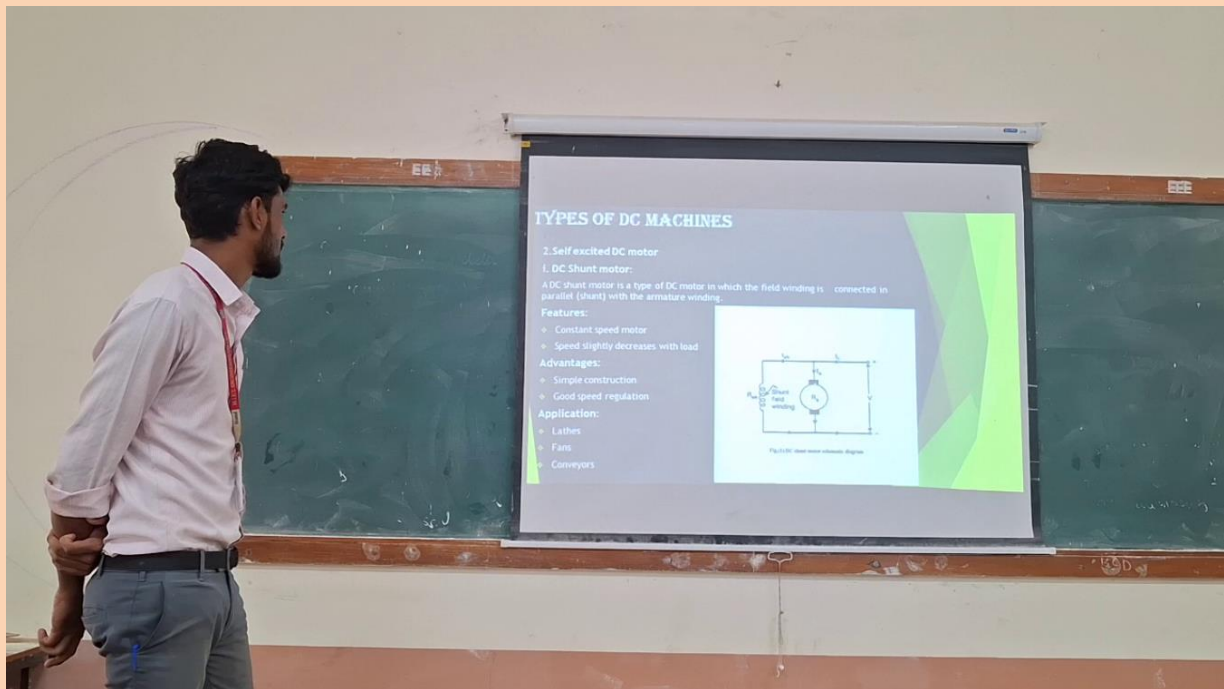
Students Performing Software-Based Project Development and Programming

STUDENT INTERSHIPS

- **M. Mohammed Parvesh** completed an internship at **AVM Engineering Industry, Avarampalayam, Coimbatore**, from **17.07.2023 to 31.07.2023**.
- **R. Mohamed Irfan** completed an internship at **AVM Engineering Industry, Avarampalayam, Coimbatore**, from **17.07.2023 to 31.07.2023**.
- **D. Mohamed Ismail** completed an internship at **AVM Engineering Industry, Avarampalayam, Coimbatore**, from **17.07.2023 to 31.07.2023**.
- **N. Mohamed Hany** completed an internship at **AVM Engineering Industry, Avarampalayam, Coimbatore**, from **17.07.2023 to 31.07.2023**.
- **S. Saddiq Ali** completed an internship at **AVM Engineering Industry, Avarampalayam, Coimbatore**, from **17.07.2023 to 31.07.2023**.
- **K. Nivedha** completed an internship at **Lakshmi Electrical Works, PU-1 Electrical & Electronics Industrial Estate, Thuvakudi, Trichy**, from **20.07.2023 to 03.08.2023**.
- **L. Bhavadharini** completed an internship at **Lakshmi Electrical Works, PU-1 Electrical & Electronics Industrial Estate, Thuvakudi, Trichy**, from **20.07.2023 to 03.08.2023**.
- **S. Anwar Hussain** completed an internship at **Lakshmi Electrical Works, PU-1 Electrical & Electronics Industrial Estate, Thuvakudi, Trichy**, from **20.07.2023 to 03.08.2023**.
- **A. Akash** completed an internship at **Lakshmi Electrical Works, PU-1 Electrical & Electronics Industrial Estate, Thuvakudi, Trichy**, from **20.07.2023 to 03.08.2023**.
- **J. Atchaya Deepan** completed an internship at **Lakshmi Electrical Works, PU-1 Electrical & Electronics Industrial Estate, Thuvakudi, Trichy**, from **20.07.2023 to 03.08.2023**.
- **J. Julieclinta** completed an internship at **Lakshmi Electrical Works, PU-1 Electrical & Electronics Industrial Estate, Thuvakudi, Trichy**, from **20.07.2023 to 03.08.2023**.
- **M. Vigneshwaran** completed an internship at **Lakshmi Electrical Works, PU-1 Electrical & Electronics Industrial Estate, Thuvakudi, Trichy**, from **20.07.2023 to 03.08.2023**.

SEMINAR PRESENTED BY STUDENTS

- **S. Revathi** presented a seminar on **“Wireless Power Transmission Technology”**, explaining the principles, methods, applications and recent developments in wireless power transfer systems.
- **P. Kalingeswari** presented a seminar on **“Rooftop Solar Power”**, focusing on solar photovoltaic systems, rooftop installation, energy generation, advantages and applications in residential and commercial buildings.
- **R. Ranjani** presented a seminar on **“Renewable Energy Sources”**, covering solar, wind, biomass, hydro and other renewable energy technologies and their importance in sustainable power generation.
- **N. Ramyadharsini** presented a seminar on **“Generative AI in Electronics”**, highlighting the applications of artificial intelligence in electronic system design, automation, circuit development and intelligent engineering solutions.
- **K. Sivasankar** presented a seminar on **“Nanocrystalline Cores”**, explaining their properties, advantages, applications in transformers and power electronic devices, and their role in improving magnetic performance.
- **S. Mohamed Irfan** presented a seminar on **“Humanoid Robots”**, discussing robotic structure, sensors, control systems, artificial intelligence and applications of humanoid robots in various sectors.
- **G. Yuvashri** presented a seminar on **“Li-Fi Technology”**, explaining visible light communication, data transmission using LED light, advantages over conventional wireless communication and its applications.
- **B. Kesavan** presented a seminar on **“Solar Mobile Charger”**, describing the use of solar photovoltaic energy for portable charging applications and highlighting its benefits as an eco-friendly power source.
- **B. Gulzar Ahamed** presented a seminar on **“FinFET Transistor Technology”**, focusing on FinFET structure, working principle, advantages, reduced leakage current and its applications in modern semiconductor devices.
- **D. Abishegan** presented a seminar on **“Witricity – Wireless Electricity”**, explaining resonant wireless power transfer, its operating principle, advantages and potential applications in electric vehicle charging and consumer electronics.



Students presenting technical seminar topics

SPONSORED RESEARCH

- **J. Sherrin Banu:** Published a research paper titled “**Smart Real-Time Vehicle Tracking System with Safe Travel**” in the **International Conference on Advanced Trends in Renewable Energy (ICATRE 2023)** during **September 2023**. The paper focused on the development of a smart vehicle tracking system aimed at improving travel safety through real-time monitoring and tracking technologies. The work highlights the application of modern communication and intelligent technologies for safer and more reliable transportation. **ISBN: 978-81-959943-4-2**.
- **Dr. E. Muthukumaran:** Published a research paper titled “**Design of a Smart Energy Meter and Monitoring System for Industrial and Residential**” in **IEEE ICSCAN 2023** during **August 2023**. The research focused on the design and development of a smart energy metering system for monitoring electrical energy consumption in industrial and residential applications. The work provides an effective approach for energy monitoring, efficient utilization, and improved energy management. **DOI/ISBN: 9798-3503-1512-7/23**.

CONSULTANCY WORK

- **Dr. E. Muthukumaran**, Principal Investigator (PI), with **D. Tamilselvan** as Co-PI, from the **Department of Electrical and Electronics Engineering (EEE)**, undertook a consultancy project titled “**Electrification Work & Design of Circuit Systems in Super Market**” for **Kannan Super Market, Kallakurichi**. The project had a duration of **one year** with a consultancy value of **₹4,00,000**. The project involved electrical electrification works and the design of suitable electrical circuit systems for the supermarket, with emphasis on safe, reliable, and efficient electrical installation and distribution.



Dr. E. Muthukumaran, PI, with **B. Muthuselvi** as Co-PI, from the **Department of Electrical and Electronics Engineering (EEE)**, undertook a consultancy project titled “**Solar Power Irrigation System for Sustainable Agriculture**” for **Mr. Sivalingam, Agriculturist**. The project was carried out for a duration of **six months** with a consultancy value of **₹1,00,000**. The project focused on the application of solar energy for agricultural irrigation, aiming to reduce dependence on conventional electrical power sources and support energy-efficient and sustainable agricultural practices.



FACULTY PUBLICATION IN INTERNATIONAL/NATIONAL JOURNAL

- **J. Sherrin Banu** published a research paper titled “**Smart Real-Time Vehicle Tracking System with Safe Travel.**” The paper was presented at the **International Conference on Advanced Trends in Renewable Energy (ICATRE 2023)** in **October 2023**. The research focuses on the development of a smart real-time vehicle tracking system aimed at improving **vehicle monitoring, passenger safety, real-time location tracking, and secure travel**. The work demonstrates the application of modern technology for enhancing transportation safety and monitoring. The publication is available through the DOI **10.5281/zenodo.10048071**.
- **D. Tamilselvan** contributed a research work titled “**Optimizing Renewable Energy Utilization with High Gain Converters.**” The research was published in **Renewable and Sustainable Energy Reviews** in **December 2024**. The study focuses on the effective utilization of renewable energy sources through the application of **high-gain converter technologies**. The work highlights the importance of efficient power conversion, improved energy utilization, and enhanced performance of renewable energy systems. The research contributes to the development of efficient power electronic solutions for renewable energy applications. The publication is associated with DOI **10.1016/j.rser.2023.114105**.
- **Dr. E. Muthukumaran** published a research paper titled “**Design of a Smart Energy Meter and Monitoring System for Industrial and Residential Applications.**” The research was published through **IEEE Xplore** in **2023**. The study focuses on the design and development of a smart energy metering and monitoring system for **industrial as well as residential applications**. The proposed system supports effective monitoring of electrical

energy consumption and can help users understand and manage energy usage more efficiently. The research demonstrates the application of smart monitoring technologies for energy management, consumption analysis, and improved electrical energy utilization. The publication is identified by DOI 10.1109/CSCAN8655.2023.10395669.

LIST OF FACULTY MEMBER'S AS RESOURCE PERSON IN STTP/FDP EVENTS

- **Dr. V. Sivakami** served as a resource person for the programme on **“Entrepreneurship Promotion Activity on Pillars of Design Thinking”** held on **30.04.2024** at **M.I.E.T. Engineering College**, organized by the **Institution Innovation Council**.
- **Mrs. T. Jayanthi** served as a resource person for the programme on **“Recent Trends in Control System and Its Applications”** held on **02.02.2024** at **Er. Perumal Manimekalai College of Engineering**.
- **Mrs. B. Muthuselvi** served as a resource person for the STTP/FDP on **“Cloud Computing and AI Integration”** held from **10.02.2024** to **14.02.2024** at **Sathyabama Institute of Science and Technology**, organized by **Marcello Tech**.

PATENT PUBLICATION

1. **Mrs. J. Sherrin Banu** has completed and published the project titled **“Solar Powered Multi-Stage Protection for Electrical Yard or Panel Room Using IoT – A Low-Cost Solution.”**
2. **Mrs. J. Sherrin Banu** has completed and published the project titled **“IoT Driven Smart Irrigation System with Predictive Water.”**
3. **Mrs. J. Sherrin Banu** has completed and published the project titled **“Neural Network-Based Adaptive Power Management System in IoT Devices.”**
4. **Dr. E. Muthukumaran** has completed and published the project titled **“Design and Fabrication of Emergency Water Line Pipe Connector for Industrial Water Line Pipes.”**

LIST OF FACULTY MEMBERS AS RESOURCE PERSON IN STTP/FDP EVENTS

- Dr. V. Sivakami served as a resource person for “**Agriculture Robotics – The Future of Farming**” at M.I.E.T. Engineering College on 23.11.2023.
- Mr. D. Tamilselvan served as a resource person for “**Recent Trends in Hybrid Renewable Energy Sources**” at C.K. Engineering College on 27.12.2023.

Faculty Book Chapter / Book publication

- Dr. S. Sarojini Mary authored the book “**Internet of Things**”, published by **Charulatha Publications** in **November 2024**, with ISBN-13: 978-93-6260-970-0.
- J. Sherrin Banu authored the book “**Basic Electrical and Electronics Engineering**”, published by **Charulatha Publications** in **February 2025**, with ISBN: 978-93-6260-034-9.
- J. Sherrin Banu also authored the book “**Internet of Things**”, published by **Charulatha Publications** in **November 2024**, with ISBN-13: 978-93-6260-970-0.

SPONSORED RESEARCH PROJECTS

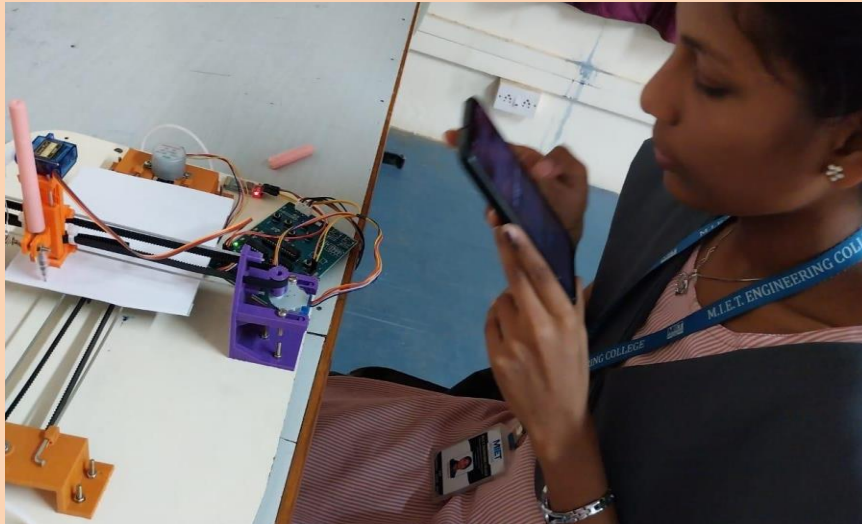
- The Department of Electrical and Electronics Engineering received **₹3,00,000** as **sponsored research funding** for two innovative research projects. **Dr. V. Sivakami, EEE**, served as the faculty member associated with the projects. The first project, titled “**Design of Solar Car with Battery and Real-Time Access**,” was sponsored by **Sri Chellam Industries** for a duration of **4 months**, with a sanctioned amount of **₹1,75,000**. The second project, titled “**Design of Railway Platform for Accident Prevention**,” was sponsored by **AVM Engineering Industry, Coimbatore** for a duration of **6 months**, with a sanctioned amount of **₹1,25,000**. Thus, the department received a total sponsored research amount of **₹3,00,000**, supporting the development of innovative solutions in renewable energy, electric mobility, and railway safety.
- **Dr. V. Sivakami, Department of Electrical and Electronics Engineering**, was associated with the sponsored research project titled “**Design of Railway Platform for Accident Prevention**.” The project was sponsored by **AVM Engineering Industry**,

Coimbatore for a duration of **6 months**, with a total sponsored research amount of **₹1,25,000**. The project focused on the design and development of an innovative railway platform system aimed at improving passenger safety and preventing accidents. The project contributed towards the development of practical safety-oriented engineering solutions for railway applications.



SEED MONEY FUNDED PROJECTS

- **Ms. B. Muthuslevi, Department of Electrical and Electronics Engineering**, received **Seed Money funding** for the project titled “**Design and Development of Writing Robot Using Speech Process.**” The project was carried out for a duration of **6 months** with a sanctioned seed money amount of **₹50,000**, out of which **₹46,540** was utilized. The project resulted in the development of a **working model** and the filing of a **patent**, demonstrating the successful translation of an innovative idea into a functional engineering prototype.



- **Dr. E. Muthukumaran, Department of Electrical and Electronics Engineering,** received **Seed Money funding** for the project titled **“Hand Gesture Control Wheelchair with Obstacle and Fall Detection.”** The project was carried out for a duration of 6 months with a sanctioned seed money amount of **₹50,000**, out of which **₹49,841** was utilized. The project focused on developing an assistive wheelchair controlled through hand gestures with additional obstacle detection and fall detection features to improve user safety and mobility. The project resulted in the development of a working model and the filing of a patent.



Mr. D. Tamilselvan, Department of Electrical and Electronics Engineering, received **Seed Money funding** for the project titled **“Detachable Conversion Kit for Manual Wheel Chair to Electrical Trike.”** The project was carried out for a duration of **6 months** with a sanctioned seed

money amount of ₹50,000, out of which ₹49,610 was utilized. The project focused on developing a detachable conversion kit to transform a conventional manual wheelchair into an electrically powered trike, providing enhanced mobility and ease of use. The project resulted in the development of a **working model** and the filing of a **patent**.

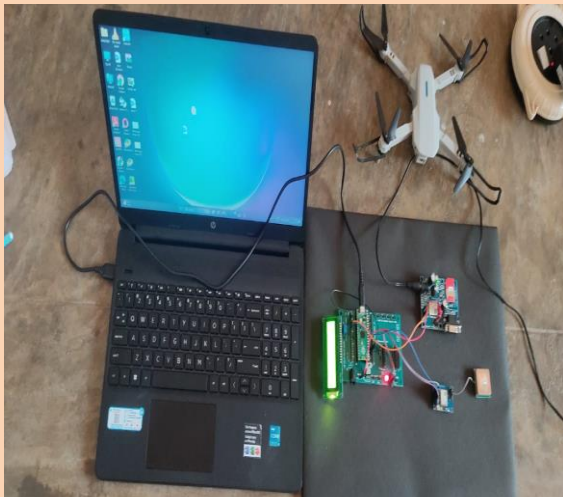


STUDENT PROJECTS

- **J. Julieclinta** developed the project “**AI Enabled Drone to Track the Human Movement during Disaster**” under the guidance of **Dr. E. Muthukumaran**. The project was categorized as an **Application**.
- **V. Varshini, G. Yuvashri and K. Anusuya** developed the project “**Design and Development of Writing Robot using Speech Process**” under the guidance of **B. Muthuslevi**. The project was categorized as a **Product**.
- **K. Nivedha, M. Sangavi, L. Bhavadharini and V. Lakshmi** developed the project “**Vortex Type Bladeless Windmill**” under the guidance of **S. Pandiarajan**. The project was categorized as **Research**.
- **R. Rajasri, P. Poorani and N. Mohamed Hany** developed the project “**Hand Gesture Control Wheelchair with Obstacle and Fall Detection**” under the guidance of **Dr. E. Muthukumaran**. The project was categorized as a **Product**.

- **S. Thirumurugan, M. Vigneshwaran, G. Ramkumar and R. Mohamed Mukthar** developed the project **“Power Generation using Speed Breaker and Charging the EVs through Non-Touch Mode”** under the guidance of **B. Muthuslevi**. The project was categorized as **Research**.
- **S. Dhinesh Kumar, L. Rajasekar, G. Veeramanikandan, J. Atchaya Deepan, L. Hariharan and A. Kumaran** developed the project **“Digital Twin Based Real-Time Vision System for Transformer Monitoring and Rectification”** under the guidance of **D. Jayaraj**. The project was categorized as an **Application**.
- **A. Mohamed Sikkandar and A. Akash** developed the project **“An Enhanced Model for Detecting Overhead Transmission Line Faults”** under the guidance of **S. Pandiarajan**. The project was categorized as **Research**.
- **A. Mohamed, M. Mohamed Parvesh, A. S. Ubayathulla and D. Mohammed Ismail** developed the project **“Fuzzy Logic Controlled Boost Inverter with STATCOM to Improve Power Quality in Grid”** under the guidance of **D. Jayaraj**. The project was categorized as **Research**.
- **S. Mohamed Irfan, U. Ragunathan, K. Sivasankar and J. Abdul Jamees** developed the project **“Transmission of Video Over Visible Light using Li-Fi”** under the guidance of **K. Sarasvathi**. The project was categorized as an **Application**.
- **B. Abdulrahman, A. Syeedkhan, Shaikh Majid Selva, S. Mohamed and A. Saravanakumar** developed the project **“Distribution Systems Reconfiguration using PSO Based Simulation on Python”** under the guidance of **D. Tamilselvan**. The project was categorized as **Research**.
- **T. Suriya, B. Suriya Prakash, S. Dinesh and J. Aabith Hussain** developed the project **“An Automated Solar Tracking for Irrigation System”** under the guidance of **T. Jayanthi**. The project was categorized as an **Application**.
- **S. Shaik Salman, S. Sheik Dawood, S. Shifaeth Ali and D. Abishegan** developed the project **“Design of Railway Platform for Accident Prevention”** under the guidance of **Dr. V. Sivakami**. The project was categorized as an **Application**.
- **B. Gulzar Ahamed, J. Joswarajan, B. Kesavan and B. Ayyappan** developed the project **“Design of Solar Car with Battery and Real-Time Access”** under the guidance of **Dr. V. Sivakami**. The project was categorized as a **Product**.

- **S. Keerthi Kumar, R. Praveen Kumar, T. Steephan and P. Arshath Mohamed** developed the project “**Detachable Conversion Kit for Manual Wheelchair to Electrical Trike**” under the guidance of **D. Tamilselvan**. The project was categorized as a **Product**.
- **V. Prabakaran, M. S. Saadiq Ali, R. Sriram Kumar and R. Manoj** developed the project “**Smart City Energy Management System**” under the guidance of **J. Sherrin Banu**. The project was categorized as an **Application**.



Students Project Prototype

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Published date: 25.08.2024

