

Workshop Report

Organized by	: Electronics & Communication Engineering
Name of the workshop	: Basics of Electrical & Electronics Engineering
Dates	: 16/10/2025 to 06/11/2025
No of Students registered	: 198
Conducted for	: All first year students

Branch	Year	Semester	No of Students Attended
ECE	I	I	175

Report

1. Report in brief by Organizer / Coordinator / Convener:

The department of ECE conducted two weeks hands on workshop on “Basics of Electrical & Electronics Engineering” conducted for I ECE students from 16/10/2025 to 06/11/2025. The workshop was aimed to provide Basic knowledge on electrical and electronics engineering. Almost 175 students from I ECE have participated in the workshop.

Following contents are covered in the workshop:

- Resistance colour coding
- Soldering practice
- Battery operated LED/BUZZER
- Smart night lamp
- Clap switch
- Traffic light control

This workshop was scheduled with the objectives:

The primary objective of the workshop was to provide participants with fundamental theoretical knowledge combined with essential hands-on practical skills in core areas of Electrical and Electronics Engineering. Specific practical goals included:

- Developing basic skills in component identification.
- Mastering fundamental circuit construction techniques.
- Implementing basic, practical electronic circuits.

Time	Session Focus	Key Activity/Outcome
Morning (9:15 AM - 11:30 PM)	Fundamentals & Basic Assembly	The day began with a formal Inaugural Session by the Principal Dean Academics & Head of the Department. This was immediately followed by foundational practical's: Resistor Color Coding (essential component identification) and Soldering Skills for Beginners (a critical hands-on skill). Session 3 involved a simple battery-powered circuit to achieve LED Glow / Beep.
Afternoon (12:20 PM - 4:00 PM)	Intermediate Circuit Implementation & Assessment	The afternoon sessions focused on constructing slightly more complex, application-based circuits: the Smart Night Lamp, Clap Switch, and Traffic Light Control. These projects required integrating multiple components and logic, providing a significant hands-on learning experience for participants in both EEE and

		ECE fields. The technical sessions concluded with a Quiz to formally assess the learning outcomes.
Last day Conclusion (4:00 PM - 4:50 PM)	Conclusion	The workshop concluded with the Valedictory Session & Certificate Distribution. Head of the Department delivered concluding remarks, acknowledging the efforts of the organizing team and the active participation of the students.

2.Resource Persons

The workshop was successfully conducted by a team of experienced faculty and technicians from the EEE and ECE departments, ensuring a cross-disciplinary approach.

Role	Key Individuals
Inaugural Speakers	1.Dr. M Muralidhara Rao ,Principal 2.Dr. S S Sarma ,Dean Academics 3 Dr.B.Raghavaiah, HoD-ECE
Resource persons	1.Mr. J. Suresh, HoD-EEE 2.Mrs. E. Praveena, Assoc.Professor,EEE 3.Ch. Sabitha , Assistant Professor ,EEE 4.Mrs. B. Pathrisamma, Assistant Professor ,EEE 5.Mrs. Y. Lavanya, Assoc.Professor ,ECE 6.Dr. G. Srillatha, Professor,ECE 7.Mrs. K.Jeevana jyothy, Assistant Professor ,ECE 8.Mrs.P.Bhuvana, Assistant Professor,ECE 9.Mr.P.Devdas, Assistant Professor ,EEE 10.Mr.P.Victor babu, Assistant Professor ,EEE 11.Mr.R.Naveen Kumar, Assistant Professor ,EEE 12.Ms.D.Sai Prasanthi, Assistant Professor ,EEE
Concluding Remarks	Mr. B.Ragavaiah, HoD-ECE

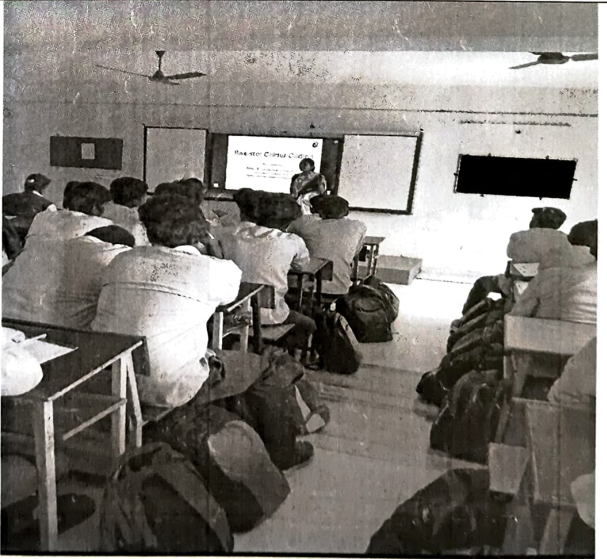
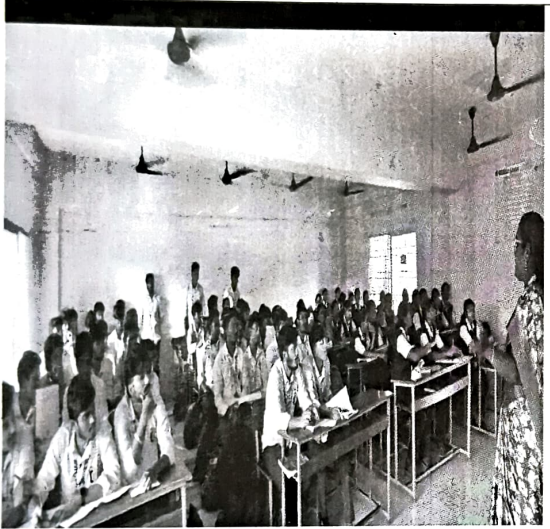
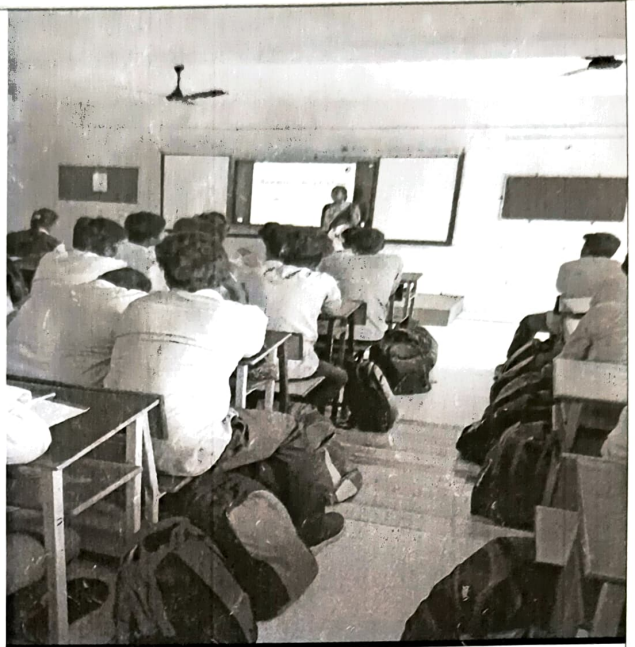
3.Outcomes:

The "Basics of Electrical and Electronics Engineering" workshop was a **highly successful event** that achieved its primary objectives.

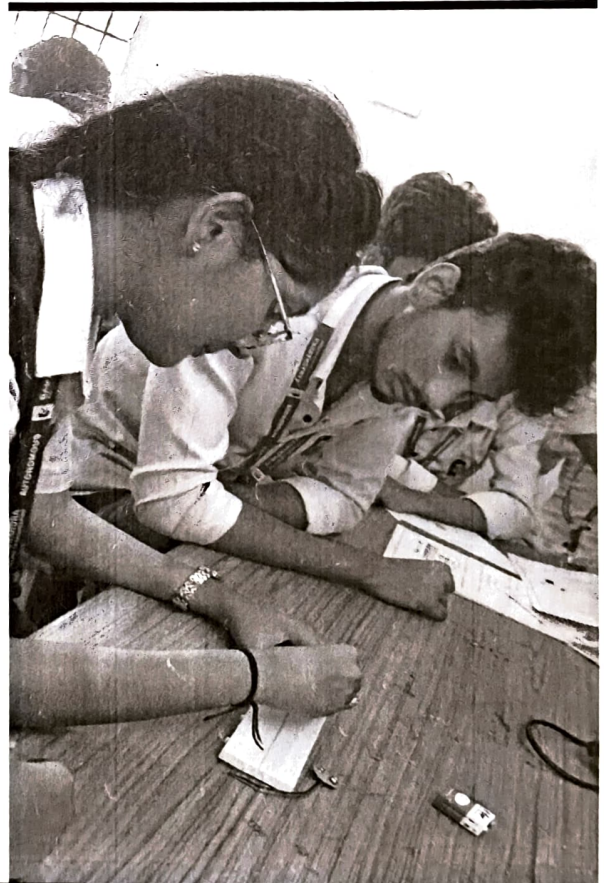
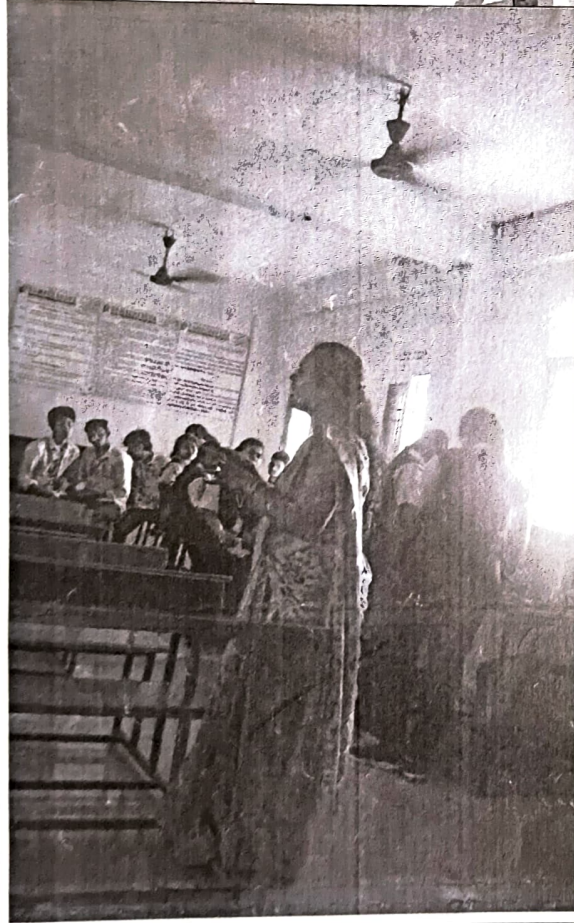
- The hands-on, practice-oriented schedule was effective in bridging the gap between theoretical concepts and practical application for the participants.
- Students not only learned to identify components and use tools like the soldering iron but also gained confidence in implementing functional electronic projects.
- The final quiz provided an effective measure of the knowledge gained.

On the last day, a valedictory Session and certificate distribution started at 4:00 PM. Dr.M.Muralidhara rao, Principal, Dr.SS Sarma, Dean-Academics and Dr.B.Ragavaiah, ECE HoD , RCE, has presided over the function. Feedbacks regarding workshop are provided by various students. All the students responded that they have learned and had hands on experience in electrical and electronics components experiments. They were very excited about participation in this workshop and requested for more workshops in similar way so that they can simultaneously gain the practical knowledge.

The session was concluded as explained their future plans and strategies. This workshop was so informative & interesting. I would like to extend my gratitude to our HoD sir, Dean sir, Principal sir, MD sir , Secretary sir for permitting me to conduct this kind of workshop. I express my thanks to our MD sir& others who arrange such an innovative & informative workshop.



4. Photos:



5. Feedback from students:

- It was great opportunity to learn practical sessions, especially soldering and building circuits like the Clap Switch and Traffic Light Control. Faculty were helpful during the practical troubleshooting stages.

J.Santhosh, I ECE-C

- This workshop covered basic skills directly needed for engineering courses, making the time spent feel highly valuable.

K.Vilson Raju, I ECE-B


Coordinator


HOD


Dean Academics


Principal