



MARUDHAR KESARI JAIN COLLEGE FOR WOMEN (AUTONOMOUS)

VANIYAMBADI, TIRUPATTUR DT - 635 751

- ✓ Recognized u/s 2(f) & 12(B) of UGC Act 1956
- ✓ Permanently Affiliated to Thiruvalluvar University
- ✓ Supported by DST - FIST | DBT STAR College Scheme



PG & Research Department of Physics

Organizes



LEARN

Identify & diagnose common faults



PRACTICAL

Hands-on practice with real devices



UNDERSTAND

Working principles & circuit operation



REPAIR

Step-by-step troubleshooting



SAFE & SMART

Work safely & build confidence

SKILLS TODAY, SOLUTIONS TOMORROW



Date : 24.08.2026 & 25.08.2026



Time : 10.00 am



Venue : Sri Arihanth Seminar Hall

Supported by

DBT STAR COLLEGE SCHEME

CHIEF GUEST

Er. R. Elavarasan M.E
Founder & Managing Director
Pranav Solutions
Krishnagiri



PRINCIPAL
Marudhar Kesari Jain College
for Women (Autonomous)
Vaniyambadi - 635 751
Tirupattur District

Sri. V. Dilip Kumar Jain
President

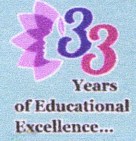
Sri. Anand Singhvi
Secretary

Dr. M. Inbavalli
Principal

Dr. P. Praveena
Head



**MARUDHAR KESARI JAIN COLLEGE
FOR WOMEN (AUTONOMOUS), VANIYAMBADI**



AGENDA

Two Day Workshop on

“Trouble shooting the small Electrical & Electronic Devices”

(Supported by DBT-STAR College Scheme)

24.08.2026 & 25.08.2026

TIME: 10:00 A.M. |

VENUE: SRI ARIHANT BLOCK

**Prayer Song
Welcome Address**

Ms. V.Harshini
III B.Sc. Physics

Felicitation

Dr.M.Inbavalli
Principal
Marudhar Kesari Jain College for Women(A)
Vaniyambadi

Chief Guest Introduction

Ms.N. Manisha
III B.Sc. Physics

Chief Guest

**Er.R.Elavarasan M.E
Founder & Managing Director
Pranav Solution
Krishnagiri**

Vote of Thanks

Ms. B. Monisha,
Department Secretary
III B.Sc. Physics

National Anthem

Handwritten signature in green ink

**PRINCIPAL
Marudhar Kesari Jain College
for Women (Autonomous)
Vaniyambadi - 635 751.
Tirupattur District**



MARUDHAR KESARI JAIN

College for Women (Autonomous), Vaniyambadi



Activity Report

Topic/ Subject of the Activity

Two Day Workshop on “Trouble Shooting the Small Electrical & Electronic Devices”, organized by the PG & Research Department of Physics and supported by the DBT-STAR College Scheme.

Date: 24th & 25th August 2026 | **Time:** 10.00 a.m. | **Venue:** Sri Arihanth Seminar Hall

Objectives (Input)

- To introduce students to the basic electrical and electronic components.
- To help students understand the basic methods of trouble shooting small electrical and electronic devices.
- To give practical knowledge about sensors, circuits, LED connections and driver circuits.
- To provide hands-on training in circuit connections, sensor output and LED bulb assembly.
- To train students in step-by-step troubleshooting and repair techniques.
- To build safe and smart habits while working with electrical and electronic equipment.

Methodology (Process)

The Department of Physics organized a two-day hands-on workshop on “Trouble Shooting the Small Electrical & Electronic Devices” under the DBT Star College Scheme. The workshop began with an inaugural session graced by the Chief Guest, R. Elavarasan M.E., Founder & Managing Director, Pranav Solutions, Krishnagiri, in the presence of Dr. D. Vetrivelan, Vice Principal, MKJC, and Dr. P. Praveena, Head of the Department of Physics, along with other faculty members of the Department of Physics and students. A total of 52 students and 8 Faculty members participated in the workshop. The two-day hands-on programme was conducted as below.

Day 1 – 24.08.2026

- **Morning Session:** The morning session included a PPT presentation on the basic components used in electronics and troubleshooting. Students learned the basics of

electronic components such as resistors, capacitors, and other components. They also learned about different types of sensors, their real-life applications, and the working of driver circuits.

- **Afternoon Session:** A hands-on session was conducted on the serial and parallel connections of LED lights. Different types of circuits using various sensors, such as Motion, IR, Gas Leakage Detector, and LDR sensors, were also demonstrated to the students.

Day 2 – 25.08.2026

- **Morning Session:** Students were divided into groups for the practical activities. Each group was guided in installing the required software on their laptops. The groups separately performed sensor-based practical activities using IR, LDR, and ultrasonic sensors, as well as an automatic door opening and closing system. Students obtained the output from the respective sensor circuits through the activities performed on their laptops.
- **Afternoon Session:** The students continued to work in their respective groups. Each group separately assembled an LED bulb using the required raw materials and components. They also learned the basic methods of troubleshooting LED lights and identifying simple faults.

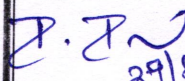
The programme concluded with a valedictory session and a Vote of Thanks.

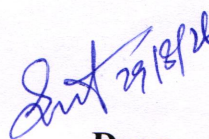
Output

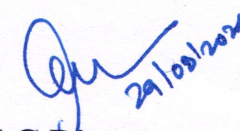
- The workshop provided students with basic knowledge of electrical and electronic components and their working.
- Students became familiar with different types of sensors and their applications in daily life.
- Students gained hands-on experience in connecting and working with simple electronic circuits.
- Students developed practical skills in using sensor-based systems and obtaining their output.
- Students gained experience in assembling an LED bulb and understanding the basic process of identifying faults in LED lights.

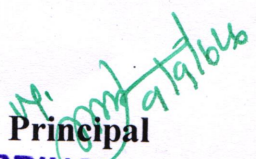
Outcomes

- Students improved their understanding of the basic working of small electrical and electronic devices.
- The workshop helped students develop practical skills in handling electronic components, circuits, and sensors.
- Students improved their ability to identify simple faults and understand the basic steps involved in troubleshooting.
- The hands-on activities helped students improve their problem-solving skills and confidence in working with electrical and electronic devices.
- The workshop encouraged students to apply their theoretical knowledge in practical activities.


29/8/26
Head of the
Department


29/8/26
Dean DBT
STAR
coordinator


29/08/2026
IQAC Director


29/8/26
Principal
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Tirupattur District



MARUDHAR KESARI JAIN

College for Women (Autonomous), Vaniyambadi



Topic: Two-Day Workshop on Trouble Shooting the Small Electrical & Electronic Device

Date: 24.08.2026 & 25.08.2026

Organized by: PG & Research Department of Physics, Marudhar Kesari Jain College for Women (A) supported by **DBT STAR COLLEGE SCHEME**

Venue: Sri Arihanth Seminar Hall



Felicitation by Vice Principal Dr.V.Vetrivelan



Demonstration given by Chief guest

Principal

PRINCIPAL

Marudhar Kesari Jain College
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