



Bhoj Reddy Engineering College for Women

Sponsored by Sangam Laxmibai Vidyapeet, Approved by AICTE and Affiliated to JNTUH

Accredited by NAAC with A Grade, Recognized under section 2(f) of the UGC act, 1956

Vinaynagar, I S Sadan X Roads, Saidabad, Hyderabad - 500 059, Telangana

Telephone: 040-2453 1725/7282, Email: principal@brecw.ac.in, Website: www.brecw.ac.in




10 March 2026

Report on two-day workshop on “Design of Electrical Systems using AUTOCAD”


The Department of Electrical and Electronics Engineering organized a two-day workshop on “Design of Electrical Systems using AUTOCAD” for III B.Tech EEE students on 5th and 6th March 2026. The workshop was conducted by M/s Aditya Engineers, MEP Services, Hyderabad, with the objective of enhancing students’ practical knowledge in electrical system design and developing their skills in using AutoCAD software for preparing electrical layouts, wiring diagrams and schematic drawings used in real-time engineering projects.

A total of 49 students actively participated in the program. The sessions were scheduled from 09:30 AM to 04:30 PM on both days. The workshop covered fundamental concepts of electrical drafting and design using AutoCAD, including preparation of electrical layouts, wiring diagrams, circuit schematics and proper placement of electrical components as per industry standards. The sessions also introduced students to basic AutoCAD tools, commands, layers, symbols and techniques required for designing electrical systems used in residential and commercial buildings.



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Department of Electrical and Electronics Engineering

Under Internal Quality Assurance Cell

Organizing

Two-day Workshop

On

Design of Electrical Systems using AUTOCAD

in Collaboration with M/s Aditya Engineers, MEP Services, Hyderabad

For III BTech EEE Students

Date : 05 & 06 March 2026
Time : 09:30Hrs to 16:30Hrs
Venue : Room No: NB G07 (Theory Session)
Room No: NB G10 (Hands-on session)

Figure 1: Banner



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File No: BRECWEEE/AY2025-26/Workshop/125

Date: 02/03/2026

CIRCULAR

All the III B Tech EEE students and staff are hereby informed that EEE Department is conducting two-day workshop on "Design of Electrical Systems using AUTOCAD" under Internal Quality Assurance Cell (IQAC) on 05 & 06 March 2026. The workshop is scheduled between 09:30-16:30 Hrs.

All students will be attending the workshop. This workshop will be conducted by Mr G Pavan Kumar, M/s Aditya Engineers, MEP Services, Hyderabad.

The schedule of the workshop is as follows:

S No	Class	Date and Time (Hrs)	Venue
1	III Btech EEE	05 & 06 March 2026 09:30 – 16:30 Hrs	III EEE Class Room, Room No: NB G07 (Theory Session) Electrical Simulation Lab Room No: NB G10 (Hands-on session)

Note:

- 1) The faculty who are handling III EEE should mark the attendance as per the timetable on these respective dates.
- 2) All the EEE teaching and non-teaching faculty who do not have class work are requested to attend the inaugural session of this workshop on 05 March 2026 at NB G07 at 09:30 am


Dr G Shyama Chandra Prasad
Principal
PRINCIPAL
Bhoj Reddy Engineering College for Women
Vinaynagar, Santoshnagar Cross Roads,
Hyderabad-500 059, Telangana

To,

All HoDs/HoFs for circulation among the students and staff members.

Copy to

1. Chief Operating Officer, SLV
2. Director-HR & Academics, SLV
3. Vice Principal, BRECW
4. IQAC Coordinator
5. Seminar & Workshop Coordinator
6. Maintenance Officer, BRECW
7. System Admin
8. Security Supervisor
9. Notice Board

Figure 2 : Circular

The first day (05 March 2026) started with an inaugural function. Inaugural function was attended by the resource person Mr G Pavan Kumar, Manager, M/s Aditya Engineers, MEP Services, Hyderabad; Dr G Shyama Chandra Prasad, Principal-BRECW; Dr S Asha Kiranmai, HOD-EEE; Mrs. R Manju Bhargavi, Assscoiate Professor-EEE, Workshop in-charge; EEE staff and III B.Tech EEE students.

In the forenoon technical session, the resource person introduced Module I – Introduction to AutoCAD for Electrical Design, where students were familiarized with the AutoCAD interface, basic drawing tools, layers, blocks, and annotations used in electrical drafting. The session also covered standard electrical symbols based on IEC/ANSI standards and the process of creating simple electrical circuit diagrams using AutoCAD.

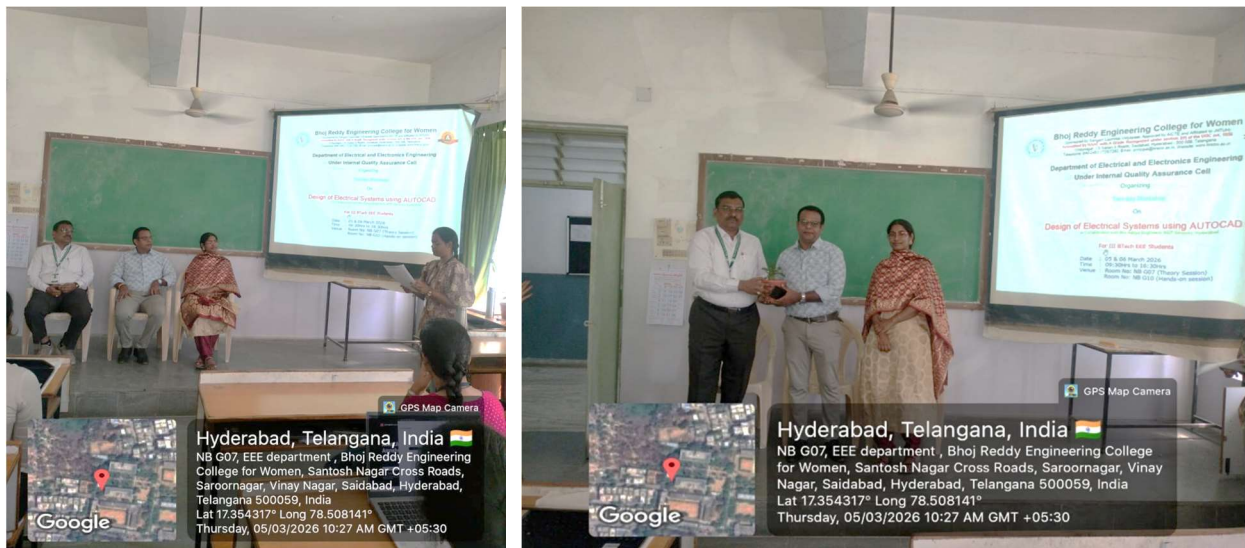


Figure 4 : Photos during Inauguration session

In the afternoon session, Module II – House Wiring and Lighting System Design was discussed. Students learned about single-line diagrams (SLD), internal wiring layout of residential buildings, basic load calculations, cable selection, and earthing and protection systems, followed by a brief demonstration on preparing residential wiring layouts and switchboard lighting plans using AutoCAD. During the practical demonstration, students learned how to develop electrical floor layouts, create wiring paths, and use AutoCAD tools for accurate placement of electrical components and annotations. The hands-on exposure helped students understand how computer-aided drafting is used in real-time electrical engineering projects for planning and documentation of electrical installations.

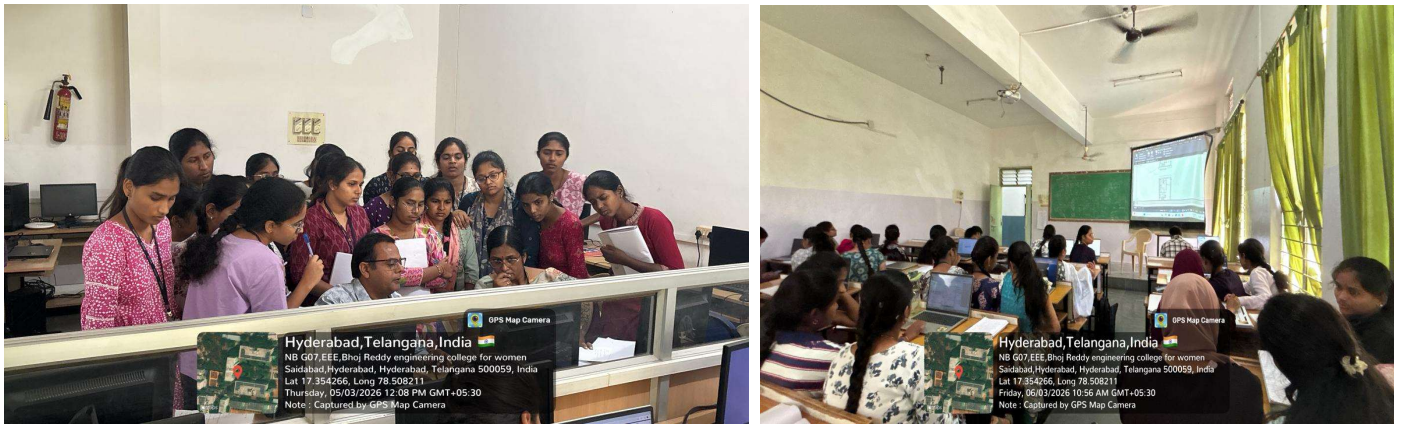


Figure 5: Hands on sessions photos

On the second day (06 March 2026) of the workshop, the forenoon session commenced with Module III – Electrical Layout Design for Buildings. In this module, Mr G Pavan Kumar explained the preparation of electrical layouts for residential and commercial buildings using AutoCAD. Students were introduced to concepts such as distribution of electrical loads, positioning of lighting points, power sockets, distribution boards, and cable routing in building plans. The session also emphasized the importance of proper planning, safety standards, and adherence to electrical codes while designing electrical systems.

In the afternoon session, Module IV – Substation and Control Circuit Design were discussed. The resource person explained single-line diagrams of substations, control circuit schematics, relay control circuits, and contactor wiring diagrams, along with cable routing and tray layouts. Students also learned how to prepare drawings for motor starter panels such as DOL and Star-Delta starters. Finally, the session introduced project planning, drawing standards, title blocks, and bill of materials (BOM). As part of the activity, students were guided to design and document a small-scale electrical system using AutoCAD, which provided them practical exposure to professional electrical drafting and documentation.

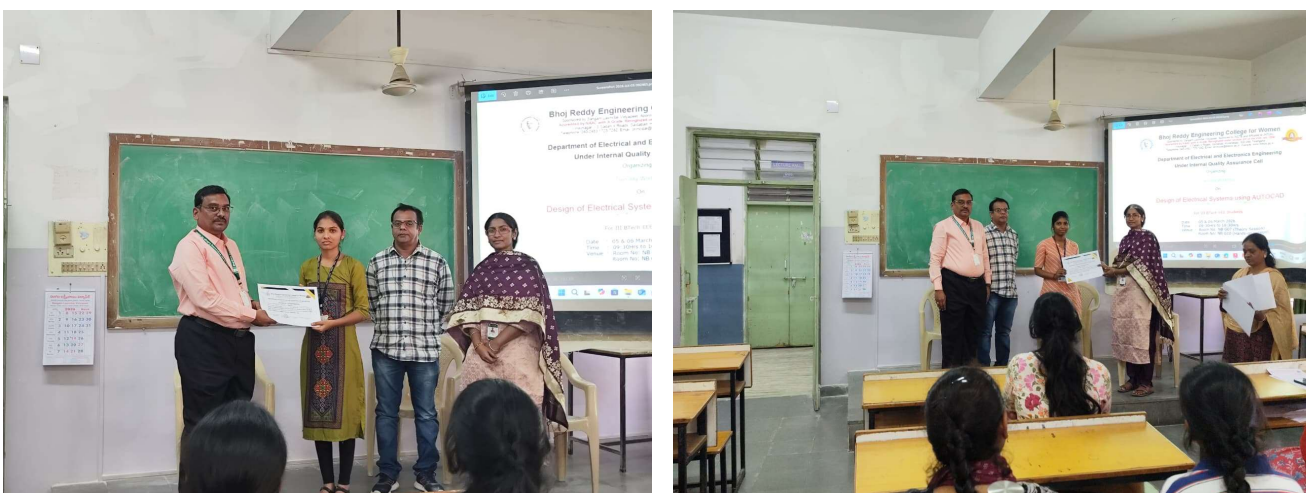


Figure 6: Certificates Distribution during Valedictory

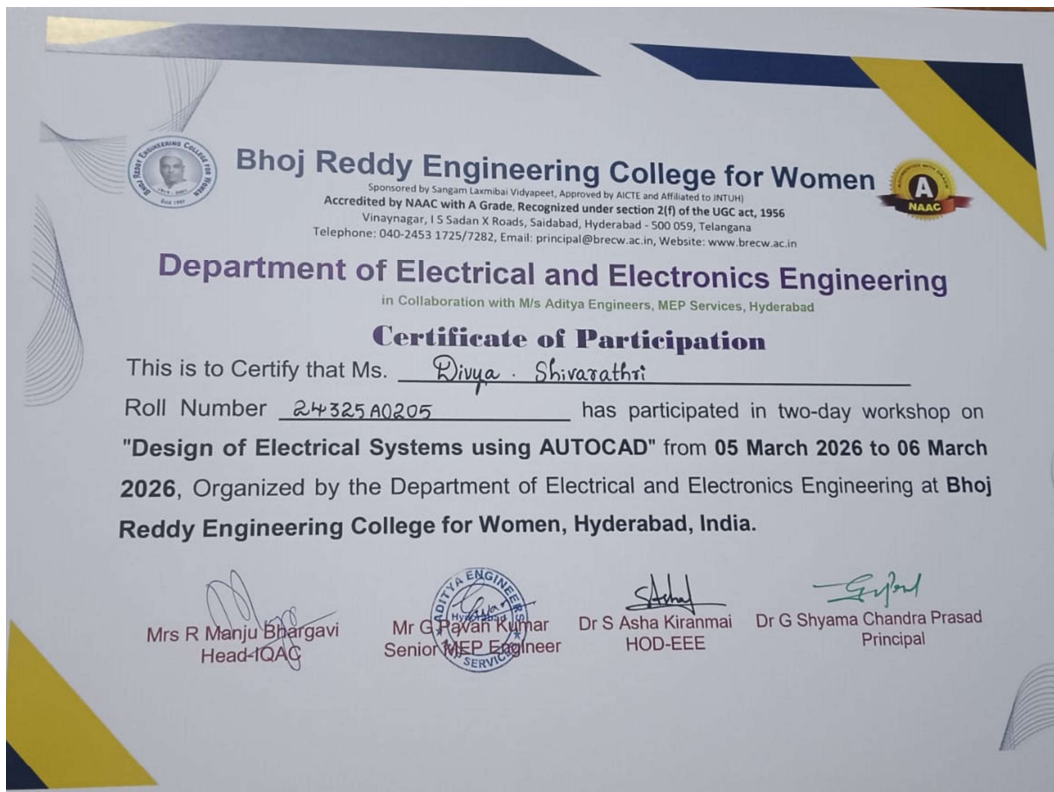


Figure 7 : Certificate sample

All the participants were given the participation certificates in the valedictory function at the end of second day. Valedictory Ceremony was attended by the resource person Mr G Pavan Kumar, Manager, M/s Aditya Engineers, MEP Services, Hyderabad; Dr G Shyama Chandra Prasad, Principal-BRECW; Dr S Asha Kiranmai, HOD-EEE; Mrs. R Manju Bhargavi, Asssoiate Professor-EEE, Workshop in-charge; EEE staff and III B.Tech EEE students.



Figure 8 : Felicitating the chief guest with the letter of appreciation

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Department of Electrical and Electronics Engineering
WORKSHOP FEEDBACK FORM

Topic: “Design of Electrical Systems using AUTOCAD” Dates: 05 & 06 March 2026
 Conducted in collaboration with M/s Aditya Engineers, MEP Services, Hyderabad.

(Rate the feedback with tick mark)

S.No	Particulars	Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Poor (1)
1	The sessions were well-structured and easy to follow		✓			
2	The workshop covered a comprehensive range of concepts		✓			
3	Hands-on activities and practical demonstrations helpful in understanding the concepts	✓				
4	The workshop provide insights into the current industry practices	✓				
5	This workshop will be helpful for developing my Mini / Major projects	✓				
6	Suggestions for improvement of the workshop in future:	Need more hands on Experience. If possible 3 day workshop.				

Figure 9 : Sample feedback form

The Feedback from the students was collected. Overall feedback of the workshop is Good and active participation of students during the workshop was notable and students were engaged throughout the session. Student’s thoughtful questions and insightful comments added a lot of value to the overall discussion. We could tell that students have a good grasp of the subject matter as the workshop was informative and enlightening. In future, we can encourage students to continue attending such events and to keep learning and growing in their field of interest.

R Manju Bhargavi, Seminars and Workshops In-charge faculty expressed her sincere gratitude for allowing EEE department with and the opportunity to conduct a workshop at BRECW. She appreciated the support that management gave and said it was informative session. Once again, she said thank you for allowing them to contribute to the learning and development of their students and the session was concluded by the vote of thanks.

Ms R Manju Bhargavi
Seminars and Workshops In-charge

Dr S Asha Kiranmai
HOD-EEE

Dr G Shyama Chandra Prasad
Principal