



Region 10

IEEE PES MSIT Student Chapter

EVENT REPORT

BATTERY MANAGEMENT SYSTEM WEBINAR

Chapter Advisor	Chairperson	Vice-Chairperson	General Secretary	Treasurer	PR Representative
Dr. Jyoti Jain	Jigyasa Kaur Chawla	Priyanshu Prasad	Ifra Siddiqua	Subrat Ranjan	Pranav Sood

POSTER OF THE EVENT

IEEE MSIT
Maharaja Surajmal Institute of
Technology
Department of Electrical & Electronics
Engineering
and IEEE PES MSIT
presents Webinar on
**Battery Management
System**
Date - 28 August 2024
Time - 4 pm
Venue - Online
REGISTER HERE

Date: 28 AUGUST 2024

Time: 4:00-5:00 PM IST

Platform: Zoom Meet

- The **IEEE PES MSIT** chapter along with **EEE department of MSIT** recently organized a webinar on the topic **Battery Management Systems (BMS)**, featuring a speaker from **Pantech e Learning**. The event attracted an audience of **20+** participants and was conducted under the guidance of IEEE PES MSIT, offering valuable insights into the uses and parameters of **BMS**.

- The speaker provided an insightful explanation on the role of Battery Management Systems (BMS) in regulating charging and discharging currents to ensure battery safety and efficiency. They emphasized that the charging current limit is crucial for preventing overheating and potential damage during the charging process, while the discharging current limit safeguards against excessive current draw, which could lead to cell degradation or safety risks.

- The webinar also delved into the usage of **BMS in EV**. BMSs are essential for ensuring the safety, efficiency, and longevity of the battery pack. The BMS monitors key parameters such as voltage, temperature, and state of charge (SoC) to regulate the charging and discharging processes. It prevents overcharging, overheating, and excessive current draw, which could damage the battery or reduce its lifespan.

- One of the highlights of the session was the detailed explanation of the types of batteries used in EV. These were **Lithium-Ion (Li-Ion) Batteries**, **Nickel-Metal Hydride (NiMH) Batteries**, **Lead-Acid Batteries** and **Ultracapacitors**.

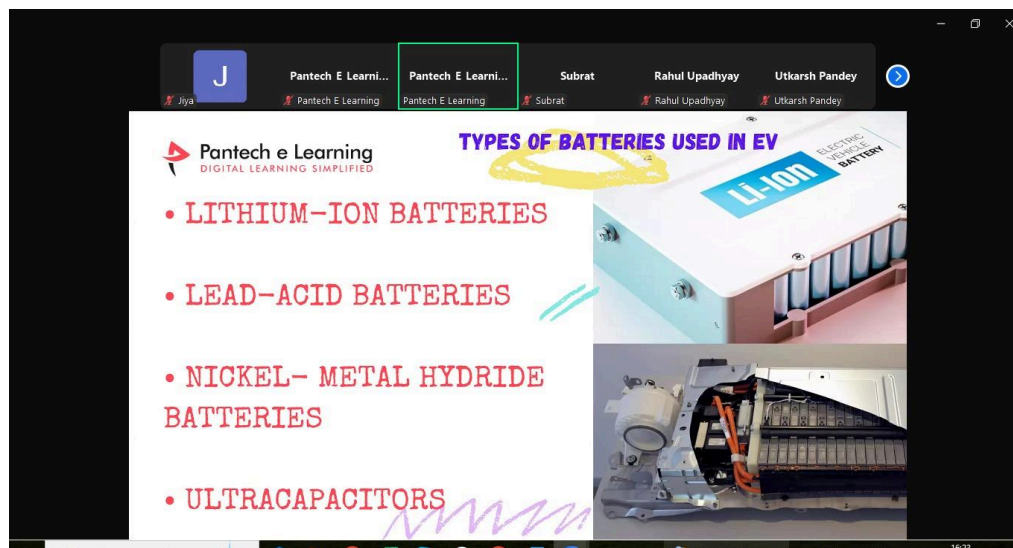
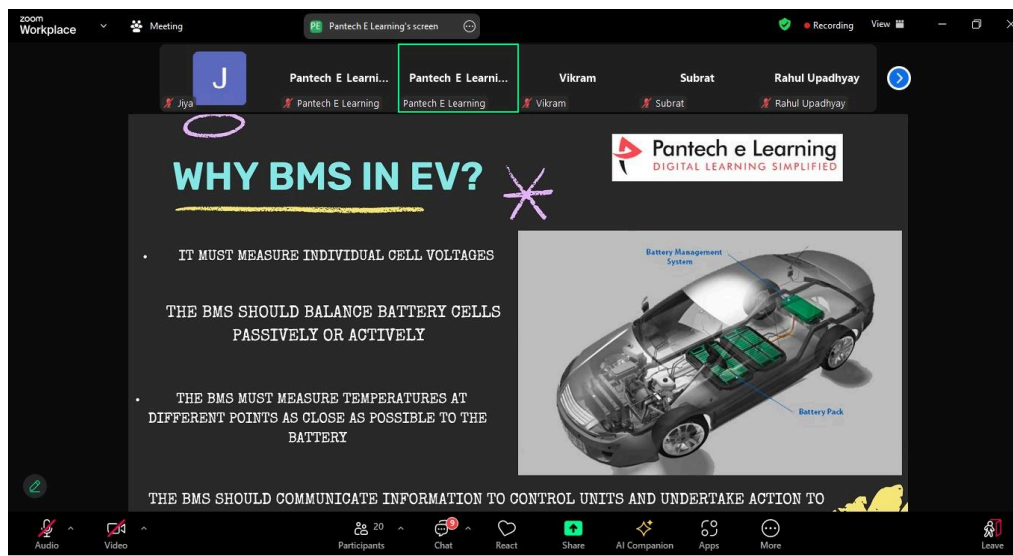
- The interactive session allowed participants to engage directly with the speaker, asking questions about the challenges, opportunities, and future trends of Battery Management Systems (BMS). The speaker's responses provided valuable guidance and encouraged participants to explore the potential of BMS in their respective fields.

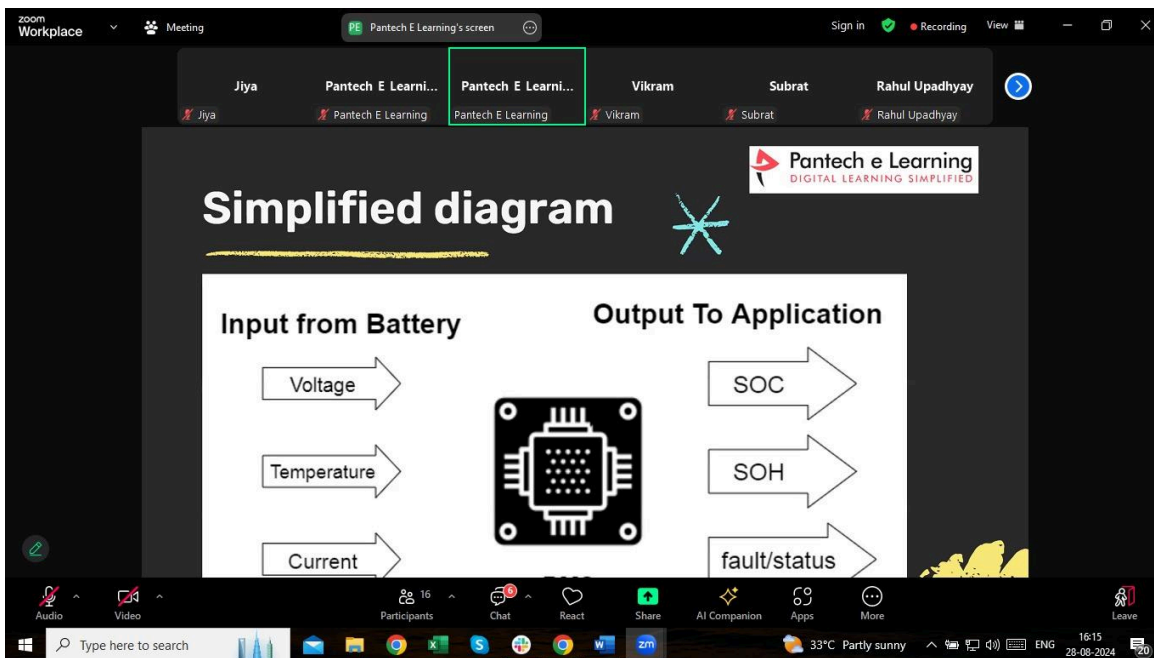
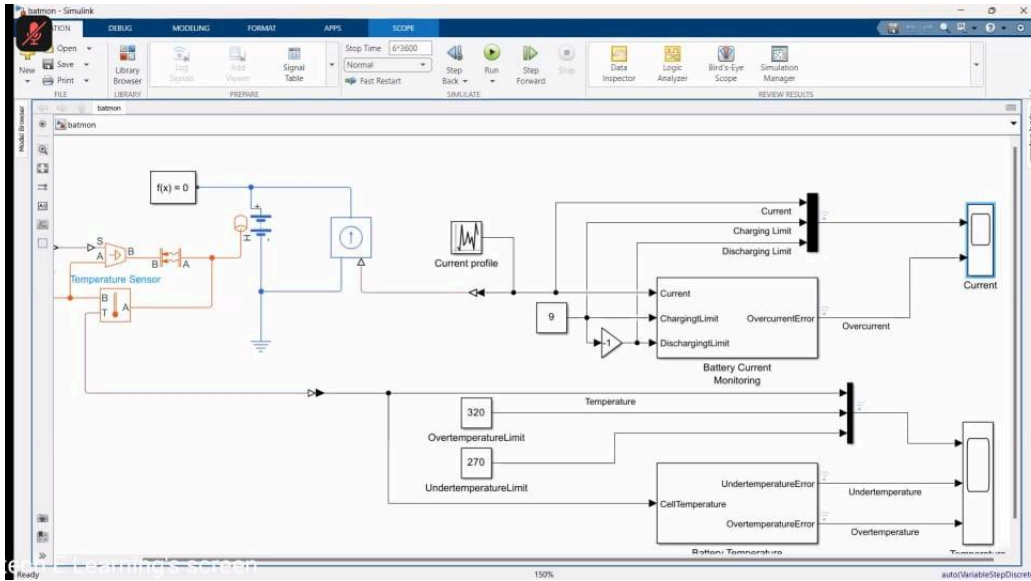
- The webinar was well-received, attended by members of the **IEEE PES MSIT Student Chapter** and MSIT students. **Dr. Jyoti Jain**, the **Chapter Advisor** for IEEE PES MSIT, was also present during the event, contributing to its overall success.

ORGANIZING COMMITTEE

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PHOTOGRAPHS OF THE EVENT





ATTENDANCE

Total – 23

IEEE Members – 4

Non-IEEE Members – 19