



**Department of Electrical & Electronics Engineering**

**Report**  
**One-Day Workshop**  
**on**  
**“An Overview of Battery Management System (BMS) in Electric Vehicle (EV) Technology”**  
**Organised by**  
**Department of Electrical and Electronics Engineering**  
**Date: 4<sup>th</sup> Dec 2021**

**Organized in association with: ISTE Student Chapter**

**Submitted by:** Dr Pratap Ranjan Mohanty, Associate Professor., Dept. of EEE

**Attendance: 30 participants from MITS Madanapalle**

The session was started at 11 AM. by Dr. Pratap Ranjan Mohanty, Associate Professor, Dept. of EEE (Program Coordinator). The Chief Guest & Resource Person for tht session Dr. A V Pavan Kumar, Associate Professor, Department of EEE, MITS Madanapalle, INDIA was introduced by the program coordinator.

The prominent speaker focused on the requirement, construction and function of BMS. The proper management and control of battery packs, which comprising of many cells is being addressed during the session. The speaker highlighted about the embedded system which includes the methods and algorithm typically be implemented by Battery Management System (BMS).

Also, the session was details about the BMS architecture and its functionality. The eminent speaker addressed on the Battery-pack sensing (voltage, temperature, current), ADC architecture, Chipset selection different protection zone and interfacing. The challenges and solution on the performance management of BMS have been focused during the session. The resource person also classified the SOC estimation methods. Besides, he focused on the Kalman filter based estimation with algorithm.





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### Sample Certificate



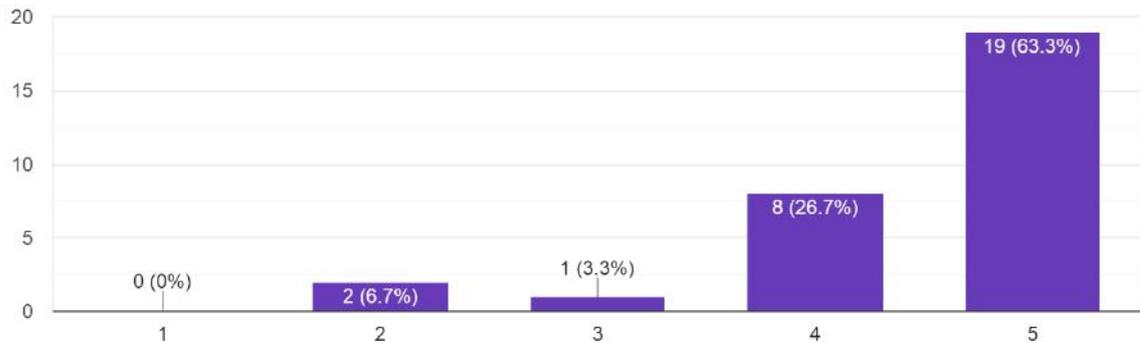
### Feedback Analysis



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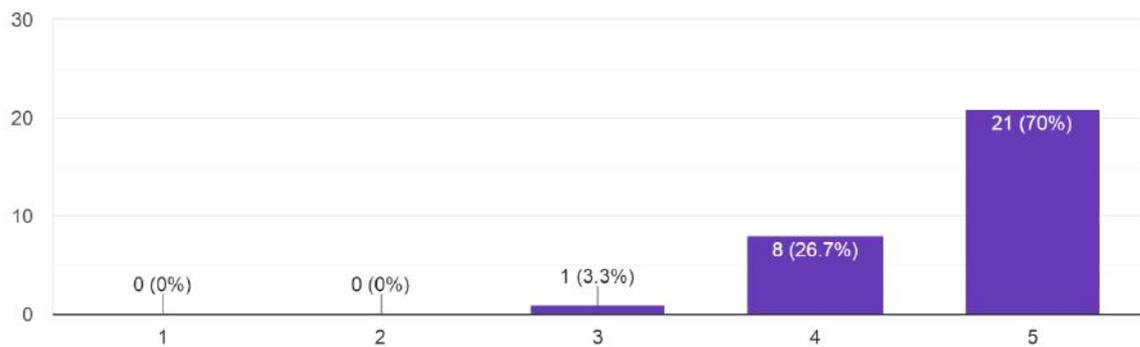
1. The interactive session was scheduled at a suitable time

30 responses



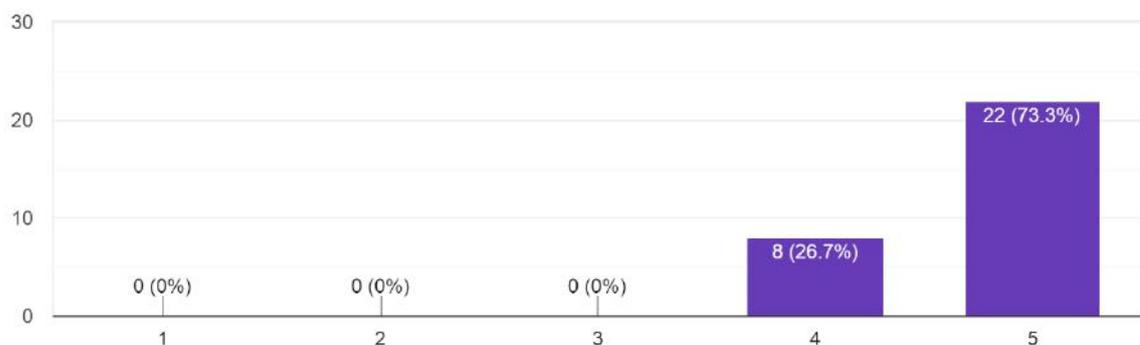
2. The interaction was useful and resource person explanation.

30 responses



3. The information in the interaction was presented in a clear and organized manner.

30 responses

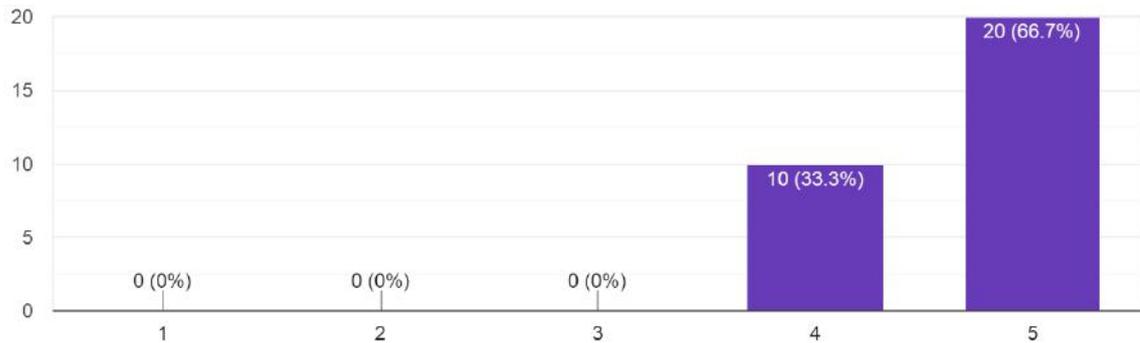




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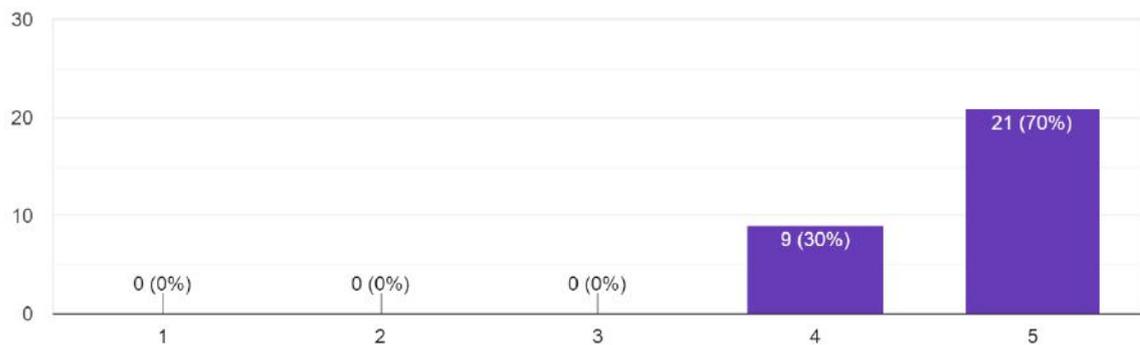
4. The presenter responded to questions in an informative, appropriate and satisfactory manner.

30 responses



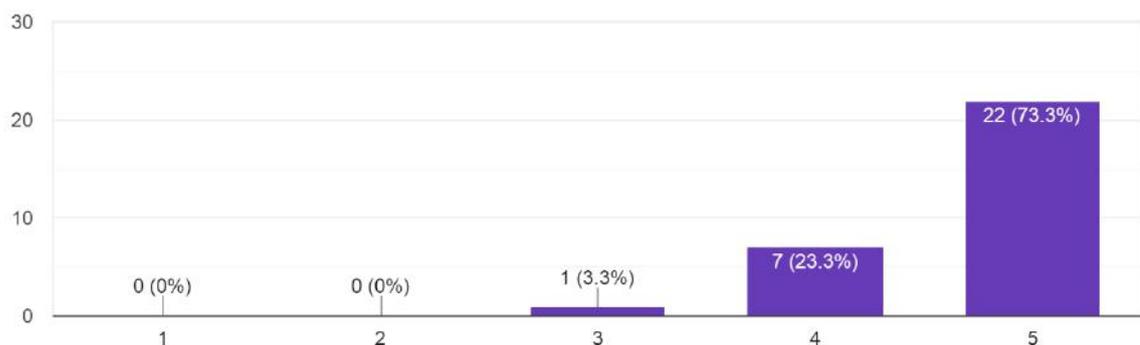
5. your impression of facilities provided by the institute for interaction.

30 responses



6. Overall, the session was informative and valuable.

30 responses





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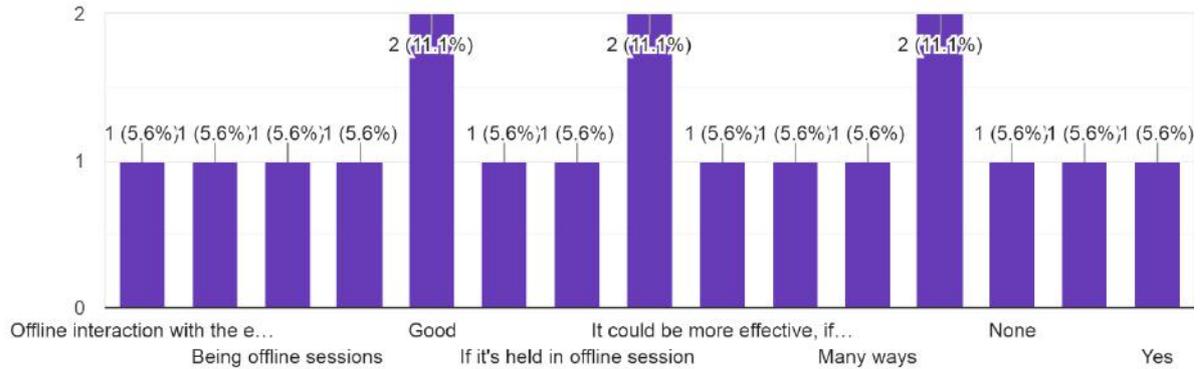
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7. In what ways could this interaction have been improved to better suit your needs?

18 responses



8. Any Other Comments 15 responses

No
Good
Very useful session
Nice sessions organised
Well program
Informative Sessions
Very useful and informative FDP. Thanks for the Resource Persons and Esteemed Organizers
No comments

Signature of the Coordinator

Signature of HoD