



Overview:

Unlock the power behind every EV with this expert-led module on Battery Cells and Battery Management Systems (BMS). Across six structured sections, dive deep into cell architecture, energy storage dynamics, and the vital role of BMS in ensuring safety, efficiency, and performance. Explore how BMS protects against overcharging, overheating, and thermal runaway, while mastering SOC and SOH estimation techniques for real-time battery diagnostics. Uncover the communication protocols that drive intelligent cell balancing and system optimization. Perfect for engineers and EV professionals ready to lead the charge in battery reliability, uniformity, and next-gen energy management. ARAI Academy presents a **comprehensive eLearning Proficiency Improvement Program (e-PIP) on “EV Propulsion Unit”** for students, faculty and working professionals.

On completing this course successfully, learner will get a certificate.

ePIP Highlights:

- Latest and up-to-date content
- Highly interactive, engaging and effective
- Real-life industry examples
- Assessments to assess learner’s knowledge
- Certificate on passing the Final Assessment

Course Cost (INR):

- **Student:** Rs. 1000 + 18% GST = Rs. 1180
- **Faculty:** Rs. 2000 + 18% GST = Rs. 2360
- **Corporate Individual:** Rs. 4000 + 18% GST = Rs. 4720

Major Course Content:

- Battery Cell Structure and Function
- BMS Architecture and Key Components
- BMS Protective Measures
- Communication Protocols in BMS
- State of Charge (SOC) & State of Health (SOH) Estimation
- Implementation and Optimization of BMS



Course Seat Time:
2 hours



Course Validity:
60 days

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