SCHEMATIC DIAGRAM FOR BMS

Task 1

1. Research Fundamentals of BMS.
    a. Understanding the purpose and importance of battery management systems.
    b. Study the components and architecture of a typical BMS.

2. Gain a Solid Background on batteries.
    a. Learn about different types of batteries and their characteristics (e.g., Li-ion, lead-acid).
    b. Explore battery operation principles, including charging, discharging and capacity.

3. Develop a Schematic Diagram
    a. Create a detailed schematic diagram of a BMS.
    b. Highlight key components and their interconnections, illustrating the operational flow.

4. Identify Problems Associated with Batteries and BMS
    a. Research common challenges such as thermal runaway, overcharging, and balancing issues.
    b. Understand the causes of these problems and their impact on performance and safety.

5. Propose Solutions to BMS Challenges
    a. Study existing solutions and innovations in the field of battery management.
    b. Suggest approaches to address identified challenges effectively.