Department: Mechanical Engineering

Name of the Event: Workshop on E Vehicles by Mr Ved Raj Khullar Assistant Professor, Department of Mechanical Engineering, DAV University Jalandhar and Dr Sharanjit Singh Assistant Professor, Department of Mechanical Engineering, DAV University Jalandhar on National Science Fest 2025.

Date of the Event: 27-28th Feb, 2025

<u>Name of the Resource Person (if applicable):</u> Mr Ved Raj Khullar Assistant Professor, Department of Mechanical Engineering, DAV University Jalandhar and Dr Sharanjit Singh Assistant Professor, Department of Mechanical Engineering, DAV University Jalandhar.

<u>Teacher Coordinator</u>: Mr Ved Raj Khullar Assistant Professor, Department of Mechanical Engineering, DAV University Jalandhar and Dr Sharanjit Singh Assistant Professor, Department of Mechanical Engineering, DAV University Jalandhar.

Report:

The Department of Mechanical Engineering organised a one-day workshop on EV Vehicles, dated: 27/03/2025.

The one-day workshop on Electric Vehicles (EVs) provided a comprehensive overview of the latest advancements, challenges, and opportunities in the EV industry. Designed for B. Tech. students the workshop covered key aspects of EV technology, infrastructure, and policy developments. The event began with an introduction to EV fundamentals, including battery technology, charging infrastructure, and powertrain components. Participants gained a deeper understanding of lithium-ion and emerging solid-state battery technologies, as well as innovations aimed at improving range and charging speed. A significant portion of the workshop will focus on the anatomy of an electric scooter. Experts will provide an in-depth breakdown of essential components such as the battery pack, motor, controller, and charging port. The battery pack, typically located under the scooter deck, serves as the primary power source, while the motor, usually positioned in the hub of the wheels, drives the scooter forward. The controller, often housed near the battery, regulates power flow between the battery and motor. Additionally, participants will learn about the braking system (disc, drum, or regenerative braking), suspension components, and display panels that provide speed, battery level, and diagnostic information.

Geotagged Pictures of the event:

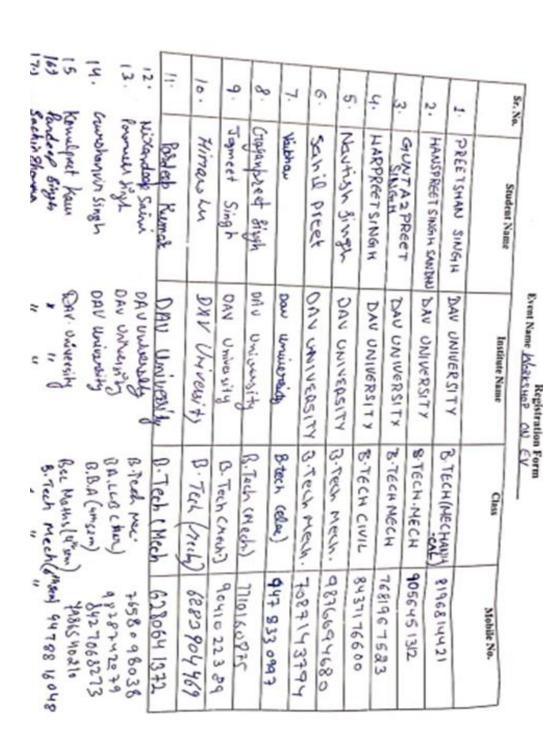






Attendance Sheet of Trainers containing name of the event, department, type of the event, date on the top of the attendance sheet.

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NATIONAL SCIENCE DAY

Feb. 27, 2025

Learning Outcomes:

- 1. Entrepreneurial Opportunities
- 2. Design and Development