

TECHNICAL TALK ON CUTTING-EDGE INSIGHTS INTO ELECTRICAL VEHICLE BATTERIES

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Resource Person : **Dr. Prajof Prabhakaran,**

Designation: **Asst. Professor, NITK Suratkal**

Introduction: In a ground-breaking technical talk held at [Venue], renowned expert Dr. Prajof Prabhakaran shared pivotal insights into the advancements and challenges shaping the future of electric vehicle (EV) batteries. The event drew a diverse audience, including industry professionals, researchers, and enthusiasts eager to stay at the forefront of EV technology.



Key Highlights:

- 1. In-Depth Analysis of Battery Chemistry:** Dr. Prabhakaran commenced the talk with an in-depth analysis of the intricate chemistry behind electric vehicle batteries. Attendees gained valuable insights into the latest advancements in battery technologies, including discussions on lithium-ion, solid-state, and other emerging battery types.
- 2. Energy Density Breakthroughs:** The talk delved into the critical aspect of energy density and its implications for EV range and efficiency. Dr. Prabhakaran presented

cutting-edge research and breakthroughs aimed at enhancing energy density in electric vehicle batteries.

3. **Charging Infrastructure and Fast-Charging Technologies:** A significant portion of the talk was dedicated to the current state and future projections of EV charging infrastructure. Attendees learned about the latest developments in fast-charging technologies, addressing concerns about accessibility and convenience for EV owners.
4. **Safety Considerations and Innovations:** Dr. Prabhakaran emphasized the paramount importance of safety in electric vehicle batteries. He discussed ongoing research and innovations designed to enhance the safety features of batteries, alleviating concerns associated with overheating and other potential risks.
5. **Environmental Impact and Sustainable Practices:** The environmental impact of electric vehicle batteries was a key topic. Dr. Prabhakaran shed light on sustainable practices in battery production, recycling methods, and the industry's efforts to minimize its ecological footprint.





Conclusion: Dr. Prajof Prabhakaran's technical talk proved to be an enlightening experience, offering attendees a comprehensive overview of the current state and future trends in electric vehicle battery technology. As the world transitions towards cleaner and sustainable transportation, the insights shared during this event will undoubtedly play a crucial role in shaping the future of electric mobility.