



Learn Beyond

**KPR Institute of Engineering and Technology**

(Autonomous, NAAC "A")

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**MI001****NBA Accredited**

(CSE, ECE, EEE, MECH, CIVIL)

**FACILITATING TRANSFORMATION IN THE INDIAN AUTOMOTIVE LANDSCAPE: EMERGING TRENDS IN ELECTRIC AND HYBRID MOBILITY**

Event No	MI001
Organizing Department	Mechatronics Engineering
Date	05/01/2024 to 06/01/2024 (2 Days)
Time	09:00 AM to 01:30 AM
Event Type	Seminar
Event Level	Dept. Level
Venue	Veena Hall
Registration Link	<a href="https://forms.gle/88y1MCakUh294N9q6">https://forms.gle/88y1MCakUh294N9q6</a>
Total Participants	50
Faculty - External	1
Students - Internal	41
Students - External	8

**Related SDG****Involved Staffs**

Sl	Name	Role
1	Arpit Anil Panwar	Convenor
2	Naveen C	Co-convenor

**Outcome**

The outcome of the program is to generate an interest among the participants about challenges and opportunities associated with the transition to electric and hybrid mobility.

**Event Summary**

**ReportTwo-Day National Level Seminar on'Facilitating Transformation in the Indian Automotive Landscape: Emerging Trends in Electric and Hybrid Mobility'**Date: January 5th and 6th, 2024Venue: Veena Hall, KPRIETOrganized by: KPR Institute of Engineering and Technology**Introduction:**The Two-Day National Level Seminar on 'Facilitating Transformation in the Indian Automotive Landscape: Emerging Trends in Electric and Hybrid Mobility' took place on January 5th and 6th, 2024. The seminar aimed to shed light on the evolving trends in electric and hybrid mobility within the Indian automotive sector, addressing key issues such as safety, technological advancements, market challenges, and innovations.**Day 1:** January 5th, 2024 The seminar commenced with an inaugural session, followed by insightful presentations and discussions on various aspects of electric and hybrid mobility.**Safety in Hybrid and Electric Vehicles:** Mr. Prasanthkumar Palani, Chief Technical Consultant at Haritha Mobility Solutions, delivered a comprehensive presentation on safety considerations in hybrid and electric vehicles. He emphasized the importance of stringent safety standards and regulations, highlighting key areas such as battery safety, electrical systems, and crashworthiness.**Automobile: Past, Present, and Future:** Dr. Arpit Anil Panwar, Assistant Professor (Sr.G.) at the Department of Mechatronics Engineering, provided an overview of the evolution of automobiles from the past to the present, and speculated on future trends. His presentation delved into the transition towards electric and hybrid vehicles, considering factors such as environmental concerns, technological advancements, and consumer preferences.**Day 2:** January 6th, 2024 The second day of the seminar continued with engaging sessions focusing on motors, drives, innovations, and challenges in electric and hybrid vehicle technology.**Motors and Drives in Hybrid and Electric Vehicles:** Mr. Angappa Velumani, Managing Director of Spaark Technologies, shared insights into the role of motors and drives in hybrid and electric vehicles. He discussed various types of motors, such as induction motors and permanent magnet motors, along with their applications and performance characteristics in electric propulsion systems.**Innovations in Electric and Hybrid Vehicle Design and Technology: Challenges with the Indian Automotive Market:** Mr. Sasikumar Ayyaswamy, General Manager at Jayem Automotives Pvt. Ltd., concluded the seminar with a thought-provoking presentation on innovations and challenges in electric and hybrid vehicle design and technology within the Indian automotive market. He addressed issues such as infrastructure limitations, affordability, range anxiety, and regulatory frameworks, while also highlighting potential opportunities for growth and development.**Conclusion:**The seminar provided a platform for industry experts, researchers, and enthusiasts to exchange

ideas, insights, and experiences related to electric and hybrid vehicle technology. The seminar not only enhanced understanding but also inspired collaborative efforts towards fostering sustainable and efficient mobility solutions in India.



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DEPARTMENT OF MECHATRONICS ENGINEERING  
ORGANISES SEMINAR ON

**Facilitating Transformation in the Indian Automotive Landscape: Emerging Trends in Electric and Hybrid Mobility**

OTHER DETAILS

 9.00AM TO 01.30 PM

 05-06, January, 2024

REGISTRATION LINK  
<https://forms.gle/88y1MCakUh294N9q6>

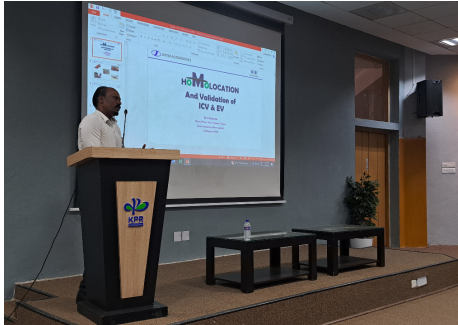
CONVENOR  
DR. ARPIT ANIL PANWAR  
  
COCONVENOR  
DR. C NAVEEN

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