AVIT AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY | VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University under section 3 of the UGC Act 1956) | Accredited by NAAC | Approved by AICTE

DEPARTMENT OF MECHANICAL ENGINEERING
SAEINDIA COLLEGIATE CLUB

SAEINDIA Society of Automotive Engineers INDIA

WEBINAR ON
BASICS OF BATTERY ELECTRIC VEHICLES
&
TECHNOLOGY OVERVIEW

Presented by

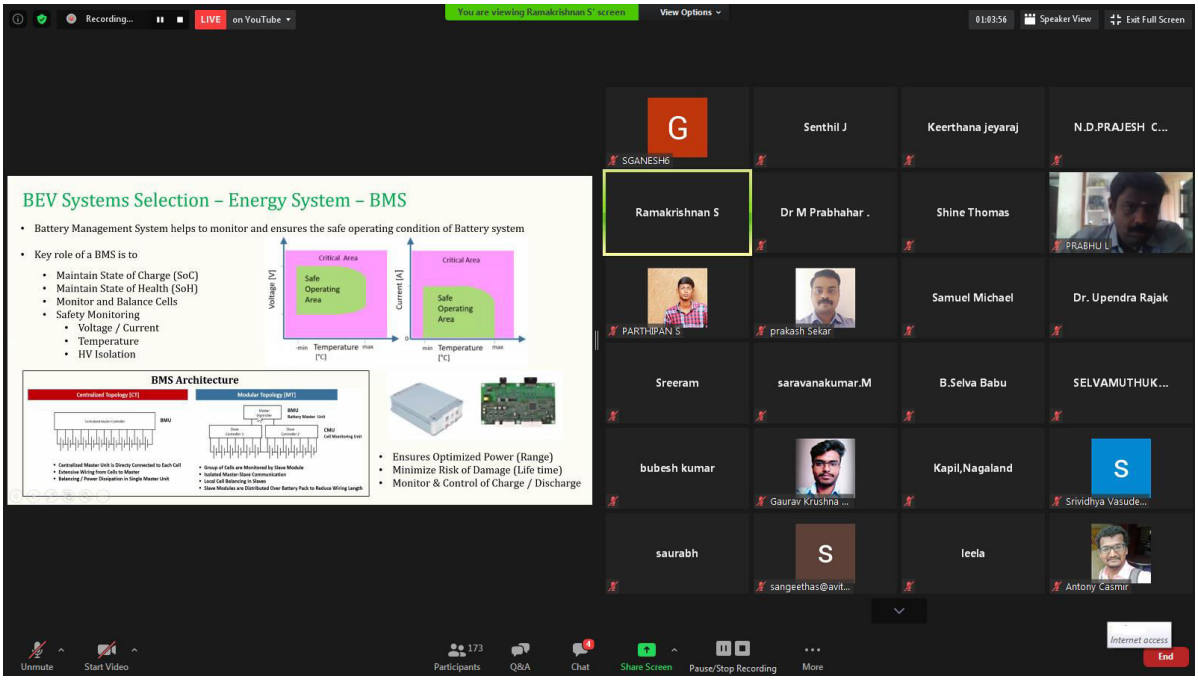
Thiru.Ganesh Sankaran	Thiru.Ramakrishnan Sivasubramanian
Chief Program Engineer – Programs Ford Motor Company Limited, Chennai	Sr. Engineer – Programs, Product Development Ford Motor Company Limited, Chennai

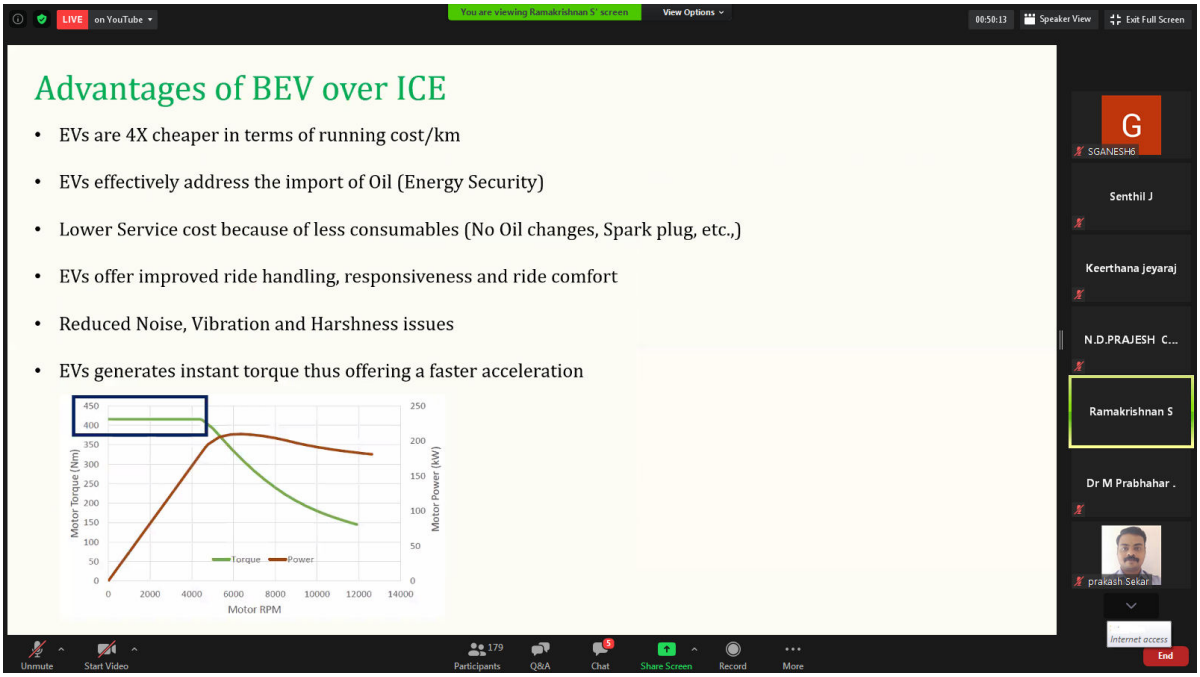
12th June 2020

The Department of Mechanical Engineering in association with Society of Automotive Engineers India Collegiate Club organized webinar on **Basics of Battery Electric Vehicles & Technology Overview** on 12th June 2020. As a good start, Prof.L.Prabhu, HoD, Mechanical Engineering welcomed the guest and participants and Webinar Co-ordinator Prof. Dr.M.Prabhahar, Mechanical Engineering elucidated the theme and importance of Webinar. Thiru.Ganesh Sankaran, Chief Program Engineer – Programs, Ford Motor Company Limited, Chennai and Thiru.Ramakrishnan Sivasubramanian, Senior Engineer – Programs, Product Development, Ford Motor Company Limited, Chennai delivered more informative lecture with many illustrations. The duo speakers elaborated the basics about battery operated vehicles –Types of batteries, recent developments, applications and the operational features. The webinar session was much interestingly handled with many statistics and facts. The webinar session was curtailed with Q&A Session, where the experts from the domain cleared the doubts/questions raised by the participants. The webinar

session was attended by more than 550 participants from AVIT and Other organizations. The session was hosted live through zoom virtual platform and as there was an enormous registration for the webinar, the session was streamed live in you tube channel of the Institution.

The Indian government has set ambitious targets to accelerate the adoption of electric vehicles (EVs). By 2023, it wants all three-wheeler's to run on batteries. By 2025, the rule will be applicable to most two-wheelers. In India, power sector decarbonisation is already happening, and industrial decarbonisation will be the next task. So, Every Engineer must have to know the present trends in Electric Vehicles. Hence this session would have surely meet the expected outcome of understanding the basics of Battery operated electric vehicles, Operational Features etc . The webinar session was concluded with a vote of Thanks by Prof. J.Senthil, Mechanical Engineering,AVIT.

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Advantages of BEV over ICE
EVs are 4X cheaper in terms of running cost/km
EVs effectively address the import of Oil (Energy Security)
Lower Service cost because of less consumables (No Oil changes, Spark plug, etc.,)
EVs offer improved ride handling, responsiveness and ride comfort
Reduced Noise, Vibration and Harshness issues
EVs generates instant torque thus offering a faster acceleration
Motor Torque (Nm)
Motor Power (kW)
Motor RPM
Torque
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Senthil J
Keerthana jeyaraj
N.D.PRAJESH C...
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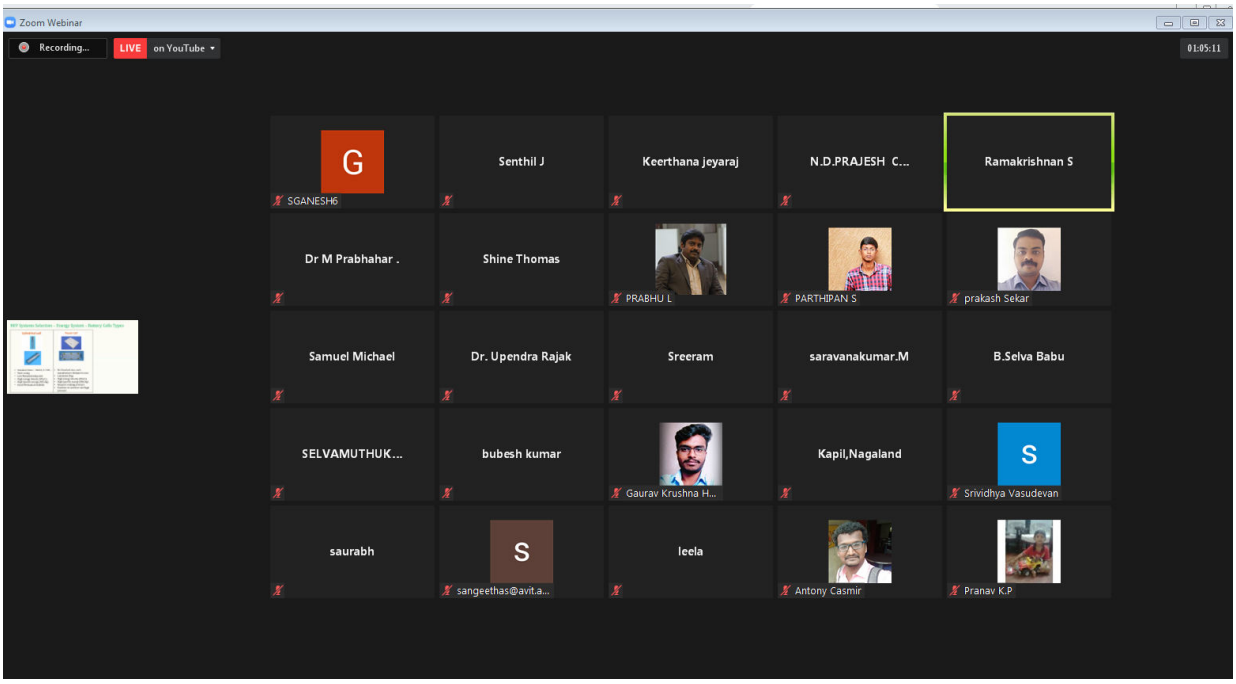
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Senthil J
Keerthana jeyaraj
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Ramakrishnan S
Dr M Prabhahar .
Shine Thomas
PRABHU L
PARTHIPAN S
prakash Sekar
Samuel Michael
Dr. Upendra Rajak
Sreeram
saravanakumar.M
B.Selva Babu
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