



SRM MADURAI
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(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai)

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**Department of Mechanical Engineering
and
R&D Cell**



Jointly Organize a webinar on

ADVANCED ELECTRIC VEHICLES

Dr. M. VENKATESAN

*Professor and Head, ECE,
Dhanalakshmi Srinivasan College of Engineering,
Coimbatore*



28th November, 2023



03:30 pm onwards

*Hosting Platform : Google Meet
G Meet Link : <https://meet.google.com/ehw-iqkp-voh>*

All are cordially invited..!

Coordinator

Dr. K. BALAMURUGAN
ASP/ MECH and R&D Cell

Co-Convener

Dr. R. ASHOKKUMAR
HoD - MECH

Convener

Dr. S. DURAIRAJ
PRINCIPAL



VENKATESAN (Presenting)

Enable Wicup Presentation_songa 201020 - Microsoft PowerPoint

Home Insert Design Animations Slide Show Review View


Font Paragraph Drawing Layout Styles Editing

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KEY COMPONENTS OF EVs

BATTERY

- EV Batteries are DC while charging is from AC [converter]
- Advance in EVs » Advances in technology / Batteries:
 - ✓ Nissan Leaf in 2010 ran at 110 km on one charge
 - ✓ Latest model now have a range of 300 km or more.
 - ✓ PHEVs smaller battery capacity —commonly with an all-electric range of only 40-50km — but supplemented with a petroleum-fuelled engine
 - ✓ 30% more efficient than comparable non-hybrid vehicles
 - ✓ Battery capacity of 24 kWh charging at a rate of 1.7kW would take about 14 hrs
 - ✓ Nowadays there are fast charging at 50kW and ultra rapid at 350kW
 - ✓ e-bikes and e-scooters are charged at as little as 2A from a supply of 230V AC – a fraction of the draw from an electric kettle (for comparison, a normal domestic socket outlet is rated at 10A).



Charge connector Main converter Battery management system Battery Motor inverter

Slide 4 of 31 "Off the Thread" English (United States)



VENKATESAN



Siva Prasad



PAVAN M V



ARUNKARTHIKEYAN K



Someone wants to join this call

View

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3:06 PM | ehw-iqkp-voh

