



IEEE - MVSr STUDENT BRANCH
Student Branch Code: 12161, School Code: 41329276



Introduction to Electric Vehicles

IEEE MVSr PES Student chapter has conducted a webinar on introduction to electrical vehicles. This was conducted as most of the students are indulged in internships and projects related to electric vehicles. This was a mere help from IEEE MVSr PES student chapter.

Student Branch Mentor:

Dr. Atul Negi,
Professor,
School of CIS,
University of Hyderabad.

Student Branch Advisor:

Mr. V. Ashwini Kumar,
Head of the Department,
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Student Branch Counsellor:

Dr. D. Hari Krishna,
Assoc. Professor, EEE Dept.,
MVSr Engineering College.

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CS Student Branch Advisor:

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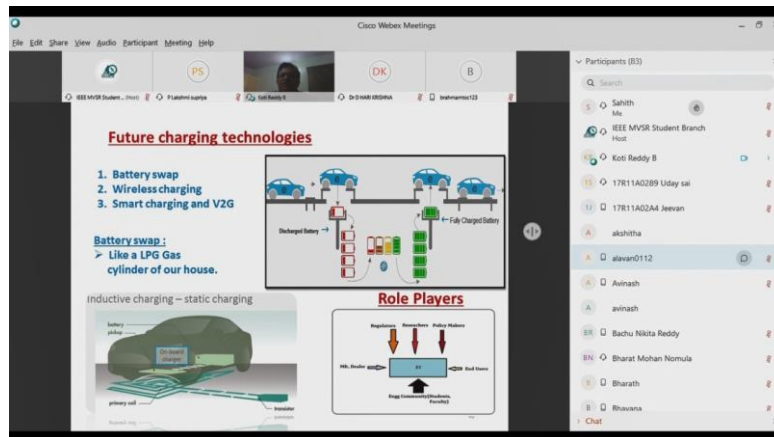
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Session details:

Date: 17th April, 2020.

Time: 6:00pm – 7:00pm.

No. of participants: 83.



The webinar was delivered by Mr. B. Koti Reddy, Deputy Manager, Heavy Water Plant, Munuguru, Bhadrachalam.

Mr. Koti Reddy is an IEEE member and has an experience of over 30yrs in installation, commissioning, testing, operation and maintenance of LT HT switch gears, Digital, analog meters, transformers, diesel generators, motors, 12MWp solar power plant with integration to grid at 6.6kv level. He's also working with electrical softwares like ETAP, PV Syst. and is practicing solar energy and electric cars. He has published 12 papers in national and international journals on electrical systems and also a book on "electrical safety".

IEEE MVSR PES Student chapter chair person Mr. Pavan Kumar erraginnela has began the webinar by greeting the participants and IEEE MVSR SB PES advisor Dr. D. Hari Krishna has briefly introducing the speaker to the participants.

Later, speaker started the session by explaining the objectives of the webinar. He said the attendees would gain knowledge regarding electric vehicle's history, it's benefits, it's types, it's components, codes and standards of EVs, present status and future prospectus of EVs.

He made us aware of the basic difference between Electric Vehicle and an IC Engine Vehicle. He shared us the timeline of the Electric vehicle and the advantages of Electric Vehicle over IC Engine Vehicle. He explained why the efficiency of Electric Vehicle is more when compared to ICE Vehicle. He said why it is tough to launch an Electric Vehicle into market.

He explained the main parts of an Electric Vehicle and how the Power flows in them. He discussed the types in Electric Vehicles, their functions and showed the internal connection layout.

He shared the statistics of commonly used Electric motors based on certain parameters. He briefed us about various types of batteries used and said that Li-Ion battery is most efficient. He explained about some parameters in battery and elaborated the Lithium based batteries.

The poster is for a webinar titled "Introduction to electric vehicles" presented by the IEEE MVSR PES Student Chapter. It is part of a "Lockdown Series Webinar-02". The event is scheduled for April 17, 2020, from 6:00pm to 7:00pm IST. The speaker is Mr. B. Koti Reddy, Scientific Officer-G at the Dept. of Atomic Energy, Govt. of India. The poster also features contact information for Pavan (8328674679) and Ramya (8498995506). A registration link is provided as bit.ly/ieee-webinar2. The background of the poster is blue and features an illustration of a green electric car at a charging station.

Poster for the event.

He briefly explained the parts of EV charger and also the various ways of how a battery can be charged in EV. He illustrated various connector types used in charging used in different countries. He also showed the different parts of EV Control System. He shared the technical specifications of REVA, an Electric Vehicle launched by Mahindra company.

He also threw light on Future charging technologies and shared few pros and cons of Battery Swap. He concluded that Engineers are like bricks for building Electrical Vehicle and motivated the attendees to be a part of it. He shared few Resources so that attendees could know more about Electric Vehicle. Dr. Raj Gopal IEEE Hyderabad Section PES Chair has also shared his experience with Electric Vehicle.

The webinar session concluded by vote of thanks after QA session to the speaker and participants by IEEE MVSR SBC and PES advisor Dr. D. Hari Krishna.

He closed the session after clearing the questions raised by the attendees.

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