AVIT AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY
VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University under section 3 of the UGC Act 1956)
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Report on Skill development program on E Mobility

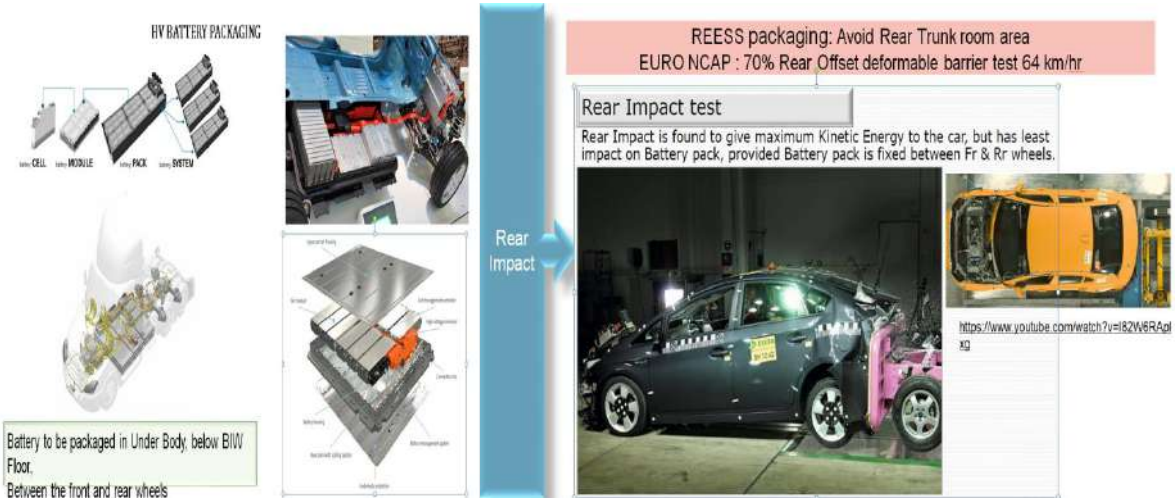
Date :20/09/2022 **Time:9.30am to 4.00 pm**

The Department of Electrical and Electronics Engineering in association with AVIT Alumni Association organized a Skill development program on E Mobility. The resource person for the Guest Lecture was Mr.Anil Chourasia, Senior R&D Engineer, Diamler – AGandan Alumni ofElectronicsand Instrumentation EngineeringbelongingtotheBatch 2009-2013.The programstarted with a warm welcome to the guest byDr.L.Chitra,HOD/EEEand introduction of the guest by Mrs. P.Poornima, AP(Gr-II) / EEE

Then the session was taken over by Mr.Anil Chourasia. The topics covered by the resource person are as follows:

- E-Mobility Design Consideration &Software Roles in E-Mobility
- Bev Major Components
- Vehicle Design Considerations
- HV Battery Packaging &Various Testing
- Bus Roller
- Isolation Monitoring System
- Weight Distribution and Packaging
- Battery Cooling and Packaging
- Other Precautions For Battery Packaging
- Harness Design : Harness Creation Process & Harness Routing Guidelines
- Clips and Clamps To Be Selected Based On The Harness Load And Mating Hole Dimensions
- Harness Components
- HV Cable Layout Design Guidelines

The Session was attended by 40 students of the Electrical and Electronics Engineering and Mechatronics Engineering. The session endedwiththevoteofthanks by Mr.S.Prakash ,AP(Gr-II)/EEE ,the coordinator of the skill development program.


HV BATTERY PACKAGING
CELL
MODULE
PACK
SYSTEM
Battery to be packaged in Under Body, below BIW Floor.
Between the front and rear wheels
Rear Impact
REESS packaging: Avoid Rear Trunk room area
EURO NCAP : 70% Rear Offset deformable barrier test 64 km/hr
Rear Impact test
Rear Impact is found to give maximum Kinetic Energy to the car, but has least impact on Battery pack, provided Battery pack is fixed between Fr & Rr wheels.
https://www.youtube.com/watch?v=l82Wi6RAqlk