



Late Shri. Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Tel.: 777 000 2544 • Website : www.viva-technology.org

E-mail: contact@viva-technology.org / principalvit@vivacollege.org

Department of Mechanical Engineering

Online Guest Lecture:	Electric Vehicle
Name of the Guest Speaker:	Mr. Suraj S D
Designation:	Founder
Organization/Institution:	Decibel labs
Date:	30/10/2020
Time:	1.30 pm Onwards

Programme Summary/Details:

The Department of Mechanical Engineering at Viva Institute of Technology in Virar organized an online guest lecture on the topic of "Electric Vehicles" on October 30, 2020. The lecture was delivered by Mr. Suraj, the Founder of Decibel Labs. The webinar took place on the YouTube Live platform. During the seminar, various aspects related to electric vehicles were discussed, including Chassis Design, Suspension, barking e-Powertrain, Charging Circuit, Electric Safety, Troubleshooting, Ergonomics, and Testing. The seminar also provided an opportunity for students to gain insights from professional engineers working in top global companies. The guest lecture primarily focused on the importance of electric vehicles, a comparative analysis between electric vehicles and the existing transportation system, demand-side management considering the presence of electric vehicles, connecting vehicles to the power grid, and establishing charging stations. The session was well received by the faculty members and students of the Mechanical Engineering Department

Photos:

End goal of simulation

1. Component sizing
2. Influence of real time parameters which can influence energy consumption
3. Component sizing optimization
4. Achieve lowest W/km
5. Scalability & modularity

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