

Department of Mechanical Engineering

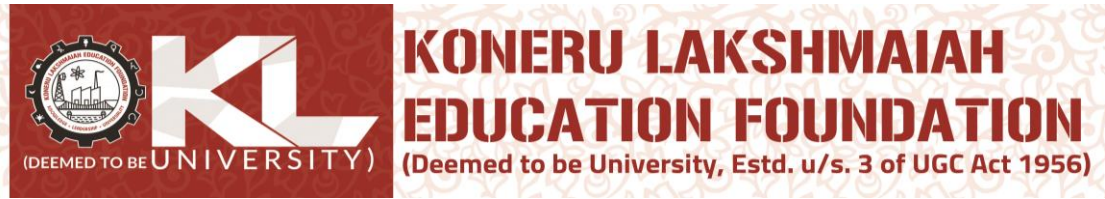
Event	Tech Talk - 1
Location	R & D Theatre
Date of event	28/02/2020
Number of participants	150
Resource Person	Mr. S. A Sundaresan <i>Vice President, Ashok Leyland</i>
Topic	E-Mobility

Event Description

Mr. S.A Sundaresan - Vice President, Ashok Leyland, graced the occasion with the technical talk on “E-Mobility”.

When it comes down to the most discussed topics around e-mobility, students and engineers were most interested in the environment, long-term costs & savings, and range in battery life. Three major models make up the electric market segment today: full electric, hybrid/plug-in hybrid, and hydrogen fuel cell vehicles. E-mobility is the umbrella term used to describe cars and all other electric mobility products. The discussion on safety when comparing EVs to ICE vehicles is a popular topic online. 9 key topics around electric vehicles today have been discussed; Battery Usage, Charging Systems, Cost & Savings, Look, Sustainability, Functionality, Lifestyle, Performance and Safety.





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Event	Tech Talk – 2
Location	Sunflower Hall
Date of event	29/02/2020
Number of participants	50
Resource Person	Dr. K. C Vora <i>SR. DR and Head ARAI, Pune</i>
Topic	Asian Mobility Scenario (EV's and AV's)

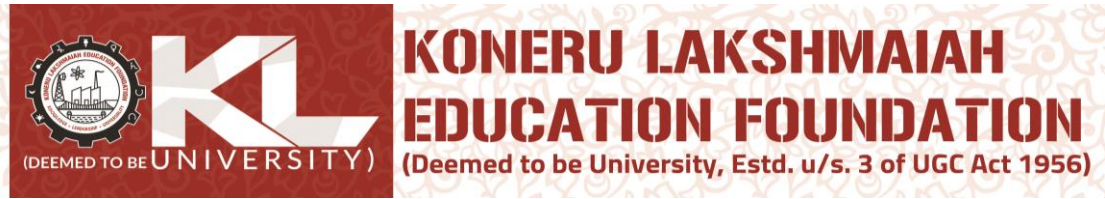
Event Description

Dr. K.C Vora – SR. DR and Head ARAI, Pune, graced the occasion with the technical talk on “**Asian Mobility Scenario**” and Key Features of Vehicle Automation achieved in ARAI;

- For a typical electric 4-wheeler (Car, LCV, SUV segment) with full drive by control capability
- CAN / TCP-IP option for communication with vehicle controller
- Actuation Systems for Steering, Brake, Accelerator
- Sensors for ADAS/Autonomous functions/Data monitoring

The Automotive Research Association India is working on internal R&D program titled “Swayam GO”. The main objective of this program is to work on improvement of safety making use of latest electronic and software technologies. As part of this program, ARAI has made prototype of Autonomous vehicle using standard electric passenger car.





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Event	Tech Talk – 3
Location	R & D Theatre
Date of event	29/02/2020
Number of participants	100
Resource Person	Dr. S.S Subramanya Sastry <i>Director-Projects, RENPRO TECH Solutions</i>
Topic	Applications of Artificial Intelligence in AV's

Event Description

Dr. Dr. S.S Subramanya Sastry – Director-Projects, RENPRO TECH Solutions graced the occasion with the technical talk on “**Applications of Artificial Intelligence in Autonomous Vehicles**”.

Artificial intelligence (AI) systems, which use data and algorithms to mimic the cognitive functions of the human mind, and have the ability to learn and solve problems independently. The automotive industry is among the industries at the forefront of using AI to mimic, augment, and support the actions of humans.

- Levels of Automation
- Contributions of AI were deeply explored
- Failures of AI were discussed
- AI can be fooled easily – Ethical Hacking

