

Schedule

19 Aug 2021

Time 9:00 AM to 1:00 PM

9:00 am to 10:00 am

Inauguration & Presentation by Dr. S. S. Metan SAEINDIA EEB Member , HOD Mechanical, NKOCET

Topics Covered 10:00 am onwards:

- Fundamental Review – Review of Basic Engineering Physics & Mechanics
- Fundamentals of Vehicle Dynamics, Wheel power /torque calculations.
- Vehicle Acceleration Performance
- Rolling Resistance
- Vehicle Aerodynamics

20 Aug 2021

Time 9:00 AM to 1:00 PM

Topics Covered:

- Grade ability & various Road Loads
- Role of vehicle transmission
- Vehicle Dynamics Detailed Calculations, CG and MI determination
- One Indian car calculations to decode designer's philosophy

26 Aug 2021

Time 9:00 AM to 1:00 PM

Topics Covered:

- Braking Performance & tires
- Anti-Lock Brake Systems
- Ride & handling, Steady State Cornering
- Suspensions Steering System
- Rollover
- Introductory NVH

27 Aug 2021

Time 9:00 AM to 1:00 PM

Topics Covered:

- -Introduction to Electric and Hybrid vehicles
- -Merits and Demerits of Electric Vehicle over petrol / Diesel / CNG Vehicles
- Summary & Closing

Registration Fees Categories including GST

SAEINDIA Student Member Rs.300/-
Non SAEINDIA Student Rs.800/-

Professional Members - Freshers, 1 or 2 years experience only
SAEINDIA Professional Members Rs.1000/-
Non SAEINDIA Professional Rs.2000/-

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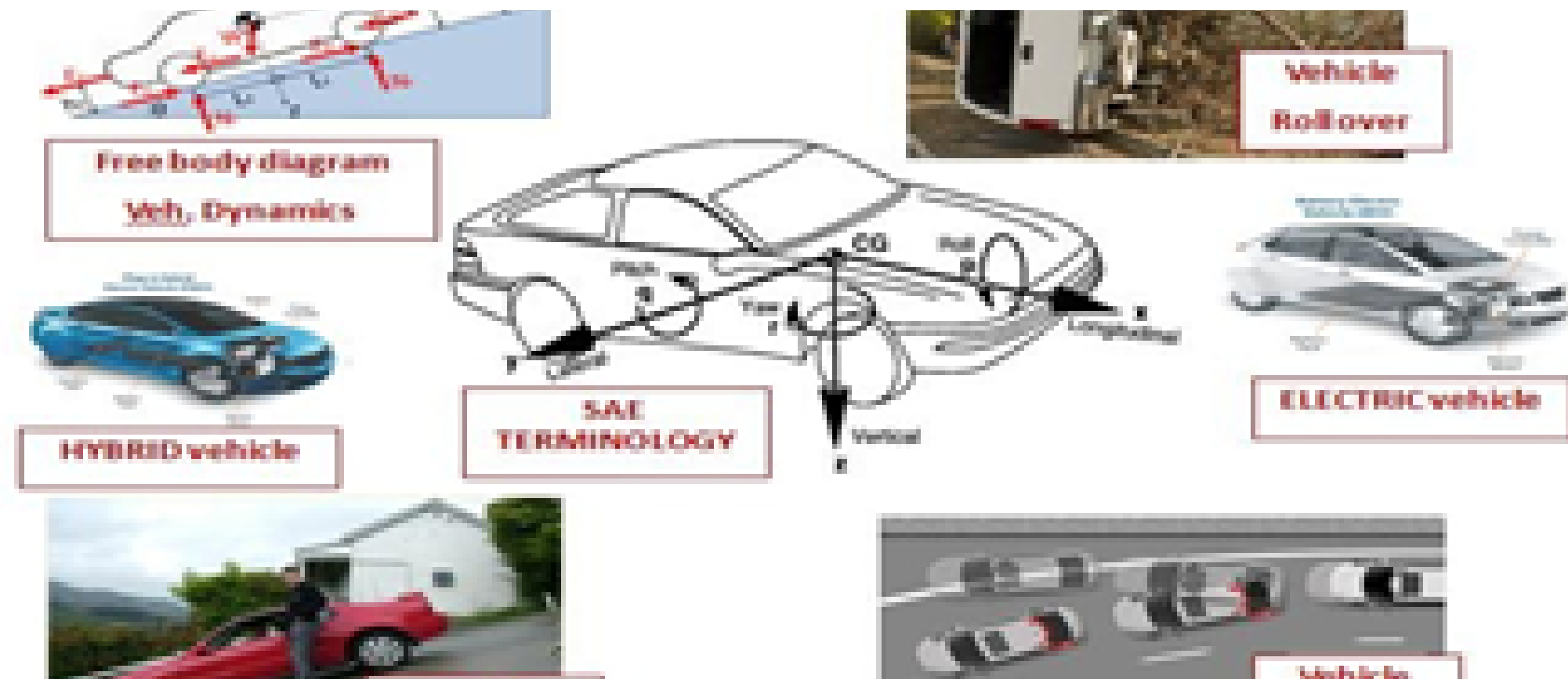
Registration fees include E-Certificate for all participant who attend all lectures.

Student Workshop on “Fundamentals of Vehicle Dynamics and Practical know-how of Vehicle Engineering”



Organized by SAEINDIA Western Section, N. B. Technologies & N K Orchid College of Engineering & Technology, Solapur

Date: 19, 20, 26 & 27 August 2021 (4 Days)
Time: 9:00 AM to 1:00 PM (everyday)



Background & Objective of Workshop

This workshop will be focused to provide practical training in fundamental Vehicle Dynamics & know how of vehicle engineering along with knowhow of Hybrid / Electrical Vehicle Design to motivate engineers working in industries / students / professors for enhancing their skill sets in vehicle dynamics, new automotive product development, product benchmarking/reverse engineering activities, establishment of institutional best practices and the various methods/ tools to plan, manage & to support automotive product development portfolio / pipeline management, project management, process engineering and engineering management.

Thus the main motto of this training will be

To build overall competence in vehicle dynamics & to have knowhow of electric / hybrid vehicles.

To perform the vehicle / aggregate designing work first time reasonably right to freeze concept designs quickly, to perform detail design calculations at the start of the project, to reduce multiple design iterations, etc.

To have an overall understanding of practical applications of vehicle dynamics, vehicle engineering, etc.

To understand the detail know how of integration and mapping of vehicle on road characteristics and engine performance characteristics by rightly designing the transmission to bring in the win-win situation for the intended vehicle usage.

To boost up the confidence in the engineers / engineering students / professors that will result into prompt and effective decisions.

Promote fresh or lesser experienced engineers mentally to take up responsibilities into engineering project development. To develop decision making abilities and problem-solving abilities with appropriate technical analysis and least assistance of their seniors. This will groom their confidence to work independently on highly engineered developmental projects.

Improve overall skills, broaden vision of engineering students / professors by improving learning ability and inclining them towards actual industrial practices to be followed.

About Speaker



Mr. Ravindra S. Kolhe
Director, N. B. Technologies

***Mr. Ravindra S. Kolhe** is a hardcore R&D engineer. He has completed his graduation in mechanical engineering & post graduation in operations management with specializations in Product development. For the past 24 years; he has been actively involved in Research & product development activities of Automotive as well as non-automotive industrial products.*

He has extensive experience in various critical areas like design, development, testing & validation of engines, Transmissions, Vehicles, Hybrid/ Electric vehicles, Design & development of automotive test systems. He is also instrumental in establishing engineering service functions consisting of CAD/ CAM / CAE as well as a modern engineering centre for product design, development, prototyping, testing & validation. He has been associated with various world reputed clients like, M&M, John DEERE, GM, TATA, MAN, CNH, Indian Railways, ISRO, DRDOs, etc.; for various technological & innovative projects. He has extensively travelled all over the world for visiting various R&D institutions, technological universities and product development consulting companies and automotive OEMs / aggregates manufacturers. He is a renowned corporate trainer and have been regularly delivering his technical trainings for employees of many Automotive OEMs and suppliers. He is also a renowned design / recruitment consultant in the Automotive Industries. He has also imparted training to more than 2500 engineers working in various industries.

Contact Details for Queries

In case of any query of Workshop kindly contact following:

Mr. Sagar Murugkar / Prof. Dipak Bhoge / Mr. Onkar Deshpande

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About SAEINDIA

The Society of Automotive Engineers India (SAEINDIA), Western Section, Pune, is a vibrant premier professional society, having substantial following in the Indian automobile industry, involved in serving the Mobility Engineering Community engaged in design, manufacture and service of self-propelled vehicles and systems that move in land, sea, air and space. Its vision is to continuously enrich knowledge base of practitioners in mobility industry and institutions in the service of humanity. SAEINDIA is India's leading resource for mobility technology. As an individual member driven society of mobility practitioners, the ownership of SAEINDIA rests with its members who are Individuals from the mobility community, which includes Engineers Executives from Industry, Government Officials, Academics and Students.

SAEINDIA is a Platform where all Engineers & Officers from Automotive Industries network with each other, share their ideas, improving technical knowledge and thereby build strong relations. This also helps them in their managerial roles in their respective fields and industry.

For more information please visit www.saeindia.org.