SAE COLLEGIATE CLUB OF SVCE
&
ASSOCIATION OF AUTOMOBILE ENGINEERS

ORGANISES A LECTURE MEET
ON

"Trends & Challenges in Vehicle Dynamics"

BY

Dr. Jaiganesh Subbian,
Principal Scientist, Global R&D Asia, Apollo Tyres Ltd.

ALL ARE INVITED

SCHEDULED ON
28TH APRIL 2023

VENUE - VIDEO HALL
TIMINGS - 10.30 AM - 12.00 PM

CONVENER
Dr. J. VENKATESAN,
PROFESSOR & HOD/ AUT.
Dr. V. GANESH,
ASSO.PROFESSOR &A.HOD/AUT

COORDINATORS
Mr. R. SAKTHIVEL,
ASSISTANT PROFESSOR,
Mr. A. K. BOOBALASENTHILRAJ,
ASSISTANT PROFESSOR

Report on Event

On 28th April 2023, the SAE Collegiate Club of SVCE, in collaboration with SAEISS Oragadam Division and Association of Automobile Engineers, hosted a guest lecture on "Trends & Challenges in Vehicle Dynamics." The event was held at the Video Hall, SVCE, providing an invaluable platform for students and faculty members to delve into the ever-evolving field of vehicle dynamics.

Dr. V. Ganesh, Associate Professor & Assistant Head of the Department of Automobile Engineering, commenced the event with a warm and welcoming address. In his introduction, Dr. Ganesh emphasized the significance of the topic and its vital role in the automotive industry. He introduced the esteemed guest speaker, Dr. Jaiganesh Subbian, Principal Scientist at Global R&D Asia, Apollo Tyres Ltd., and expressed how his expertise would enrich the audience's understanding of vehicle dynamics.

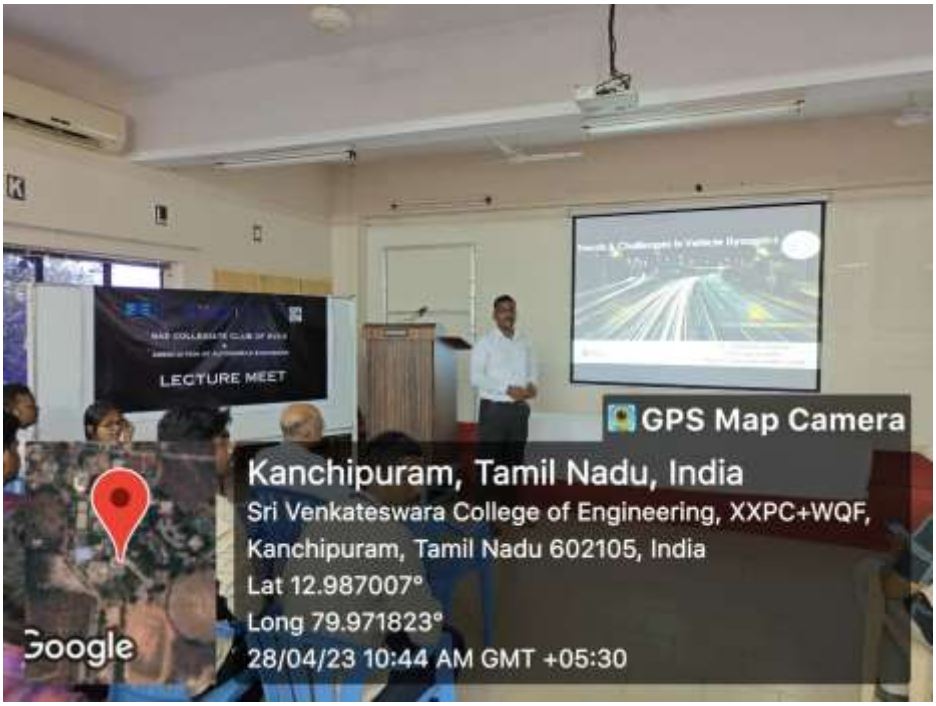
Dr. Jaiganesh Subbian took the stage to deliver his address on "Trends & Challenges in Vehicle Dynamics." The guest lecture focused on the emerging trends in vehicle dynamics technology, shedding light on the latest advancements and innovations in the field. Dr. Subbian's engaging presentation captivated the audience as he discussed the significant impact of these trends on the automotive industry.

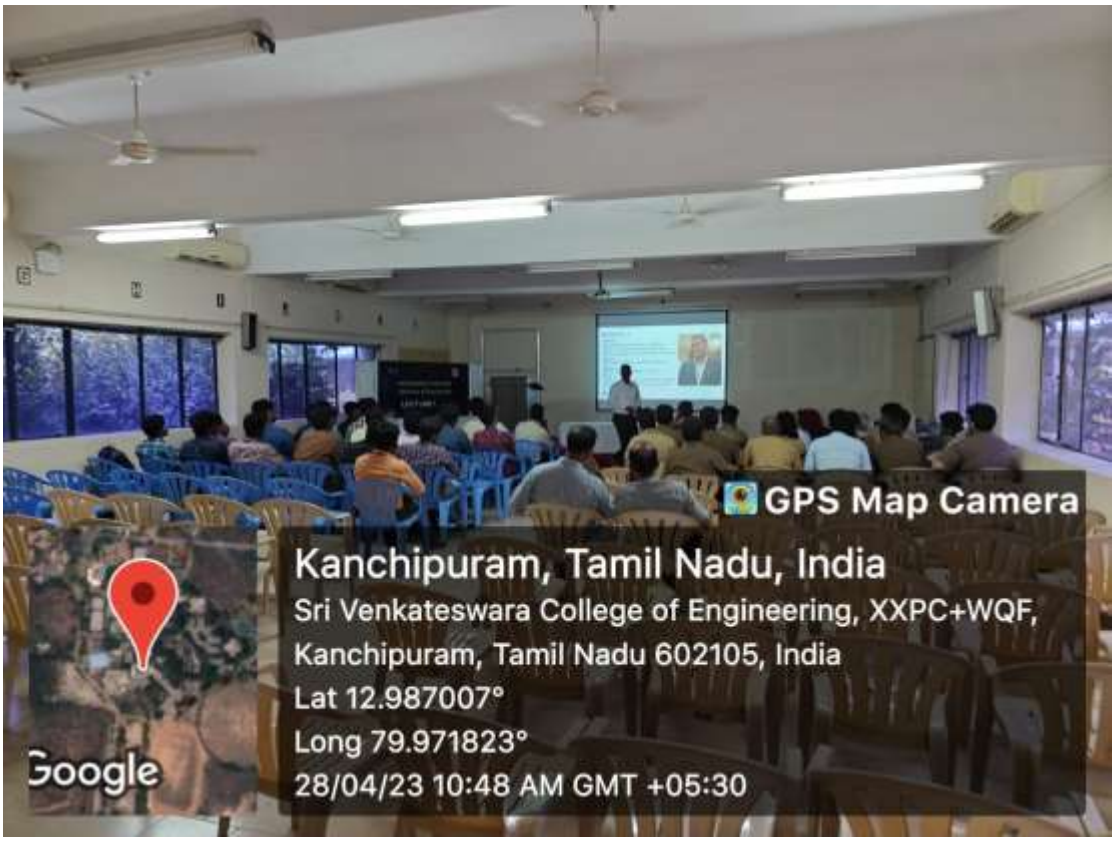
One of the key focal points of the lecture was the tire's crucial role in shaping vehicle dynamics. Dr. Subbian highlighted that tires are the only points of contact between the vehicle and the road surface, making their design and characteristics critical for various aspects of vehicle performance and safety. He stressed the importance of optimizing tire design to enhance handling, stability, and ride comfort.

Dr. Subbian elaborated on several important tire design aspects that impact vehicle dynamics, including Tire Size and Type, Tire Tread Design, Tire Materials and Construction, Tire Pressure and Inflation, and Tire Load-Carrying Capacity and also addressed the challenges faced by tire engineers and manufacturers in achieving desired performance characteristics. These challenges include balancing trade-offs between grip and rolling resistance, designing tires that perform well across various temperatures and road conditions, and meeting safety and performance standards while considering environmental sustainability.

The interactive Q&A session that followed the presentation encouraged active participation and knowledge exchange. Attendees enthusiastically posed questions and sought clarifications from the expert, further enriching their understanding of the topic.

The event concluded with a Vote of Thanks delivered by Mr. R. Sakthivel, Assistant Professor, Department of Automobile Engineering, expressing gratitude to Dr. Jaiganesh Subbian for his enlightening session and acknowledging the efforts of all those involved in organizing the event.





(Mr. R. Sakthivel, AP/AUT) **(Dr. J. Venkatesan, HoD/AUT)**