

RAPIDEZ RACING WEBINAR SERIES - REPORT

Department of Automobile Engineering in association with **SSET IEDC** and **SAEIndia Collegiate Club of SCMS** conducted a webinar series – **“Rapidez Racing Webinar Series”** from 23rd April 2020 to 12th May 2020 on the ZOOM video conference platform. The goal of the webinar was to give the students of SSET an exclusive insight of how the automotive industry works and also to learn first-hand from our alumni the efforts required to pursue higher studies and the opportunities available in the industry after they graduate.

The last webinar of the series was open to the general public and the purpose was to disseminate information on how self-maintenance could be carried out on our personal vehicles.

The webinars also included extensive Q & A sessions between speaker and participants.

Listed below are the poster and also a brief summary of the webinars.

1) “A World without IC Engine”



Department of Automobile Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Palissery, Karukutty
Ernakulam - 683576

Rapidez Racing Webinar series

01 “A World Without IC Engine”

Mr BREZHNEV JEEVANANDAM
Simulation Engineer
Opel Automobile GmbH
Russelsheim, Germany



23rd April 2020

Time: 2:15 p.m. to 3:00 p.m.

(Log in time @ 2:00 p.m. to account for Network congestion & interruptions)



Admin: Mr Sujay K, Assistant Professor



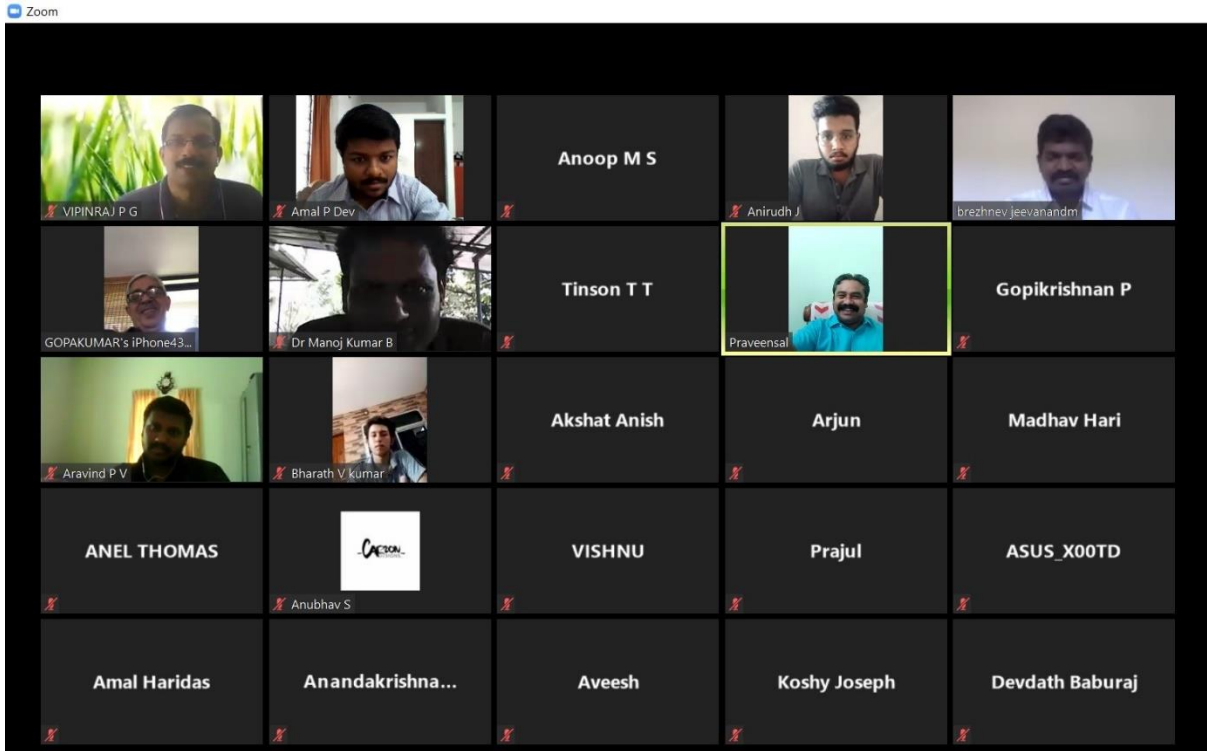
Summary:

The webinar series was inaugurated by Mr Gopakumar S, Senior Group Director, SCMS Group of Educational Institutions in the presence of Dr Praveensal C J, Principal, SSET.

Mr Brezhnev Jeevanandam shared his experience in the world of simulation and design of the automotive industry and was of the opinion that IC engines will be available for at least the next 20 years as the electric vehicle industry still has a long way to go to become as cost effective as an IC engine. He also mentioned that the auto industry would definitely shift to the EV market as a lot of companies had already released EV's in their vehicle line up.

There were about 35 student participants from 2nd semester to 8th semester of Automobile Engineering department.

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A screen shot of the webinar.

2) "Study & Career oopportunities in Sweden"



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02 "Study & Career opportunities in Sweden"

Mr TELBIN THOMAS C
M.S Production Development &
Management Scholar
Jönköping University
Sweden



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24th April 2020

Time: 2:15 p.m. to 3:00 p.m.

(Log in time @ 2:00 p.m. to account for Network congestion & interruptions)



Admin: Mr Vipin Raj P.G, Assistant Professor



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Summary:

The speaker for the 2nd webinar was an Automobile alumni from the 2013 – 2017 batch of SSET. Mr Telbin Thomas is currently pursuing his masters at Jönköping University, Sweden. He shared his experience of trying to apply for higher studies, the formalities involved and the job opportunities available in Sweden.

He gave an informative talk on the advantages of doing student design projects and the advantages such projects offer when applying for higher studies.



A screen shot of the webinar.

3) “Introduction to Autonomus Driving and Advanced Driver Assistance Systems”



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03

“Introduction to Autonomous Driving and Advanced Driver Assistance Systems”

Mr Girish Mohan
Consultant System Test Engineer
T&S engineering GmbH
Germany



27th April 2020

Time: 3:15 p.m. to 4:00 p.m.

(Log in time @ 3:00 p.m. to account for Network congestion & interruptions)



Admin: Mr Aravind P. V , Assistant Professor

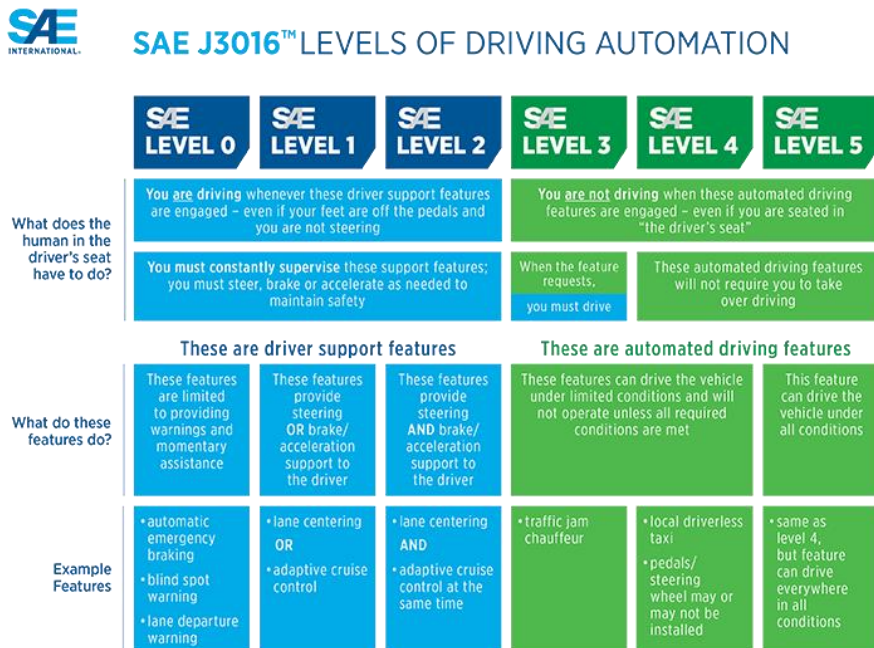


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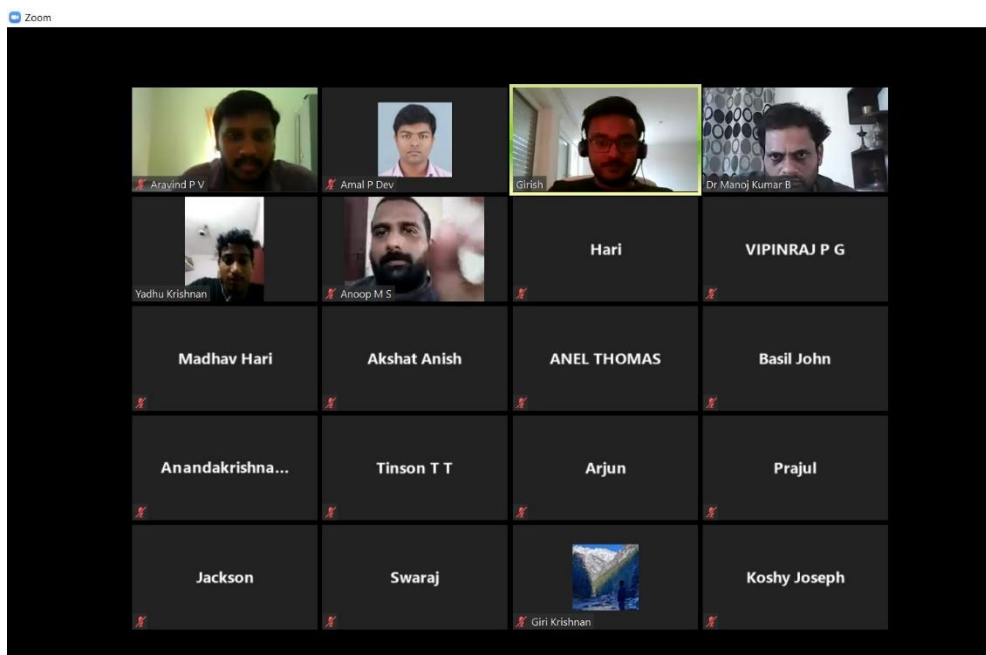
Summary:

The speaker for the 3rd webinar is also an Automobile alumni of SSET who is currently working in Germany. Mr Girish Mohan is a Test engineer of Advanced driver assist systems and Autonomous vehicles.

He shared his experience in the development of driver assistance systems like lane departure warning and collision avoidance systems. The participants were also exposed to the various levels of autonomous driving as stipulated by SAE International standard J3016.



The participants were mainly from the 3rd and final year students of Automobile Engineering as the topic involved advanced technology.



A screen shot of the webinar.

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4) "My future in Mobility"



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04 "My future in Mobility"

Mr Collin Noronha
Mobility Partner
Robert Bosch Engineering and
Business Solutions Private
Limited, Bangalore.



28th April 2020

Time: 3:15 p.m. to 4:00 p.m.

(Log in time @ 3:00 p.m. to account for Network congestion & interruptions)



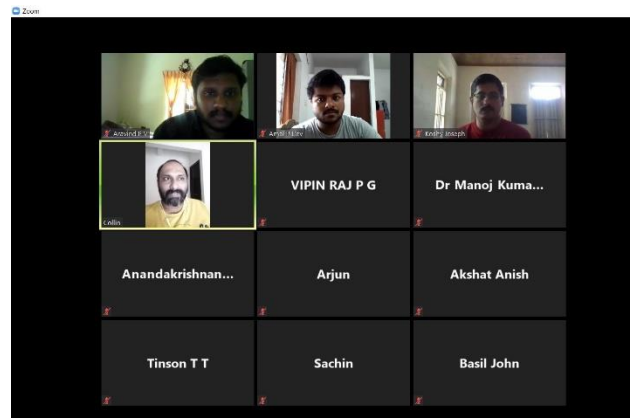
Admin: Mr Koshy P Joseph, Assistant Professor



Summary:

The 4th webinar in the series was conducted on 28th April 2020. The speaker Mr Collin is the Mobility Partner at Robert Bosch Engineering and Business Solutions. He gave the participants insight into the various job opportunities for a graduate in automobile engineering and how one should go about looking for a job. His advice was to try and get a job at one of the suppliers which are classified as Tier 1, Tier 2 and Tier 3. Tier 1 being companies like Robert Bosch, Continental Automotive etc which supply a number of components to OEM's (Original Equipment Manufacturer's like Ford, Mahindra, Maruti Suzuki etc). Tier 2 are companies which supply specialised parts to multiple companies in multiple domains for example SKF – which is a bearing company; supplies bearings to multiple industries including automotive companies.

The webinar also included a discussion of the fate of the automobile industry after the Covid - 19 lockdown. Screenshots from the webinar.



5) "Engineering behind Tyres"



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05

Rapidez Racing Webinar series
"Engineering behind Tyres"

Mr Arjun Sethumadhavan
Assistant Manager
J K Tyres
Mysuru



Mr Vishnu Moorthy
Scientist
HASETRI
(Hari Shankar Singhania Elastomer &
Tyre Research Institute)
Mysuru



SSET
ALUMNI

EXCLUSIVELY
FOR SSET
STUDENTS

29th April 2020

Time: 2:15 p.m. to 3:00 p.m.

(Log in time @ 2:00 p.m. to account for Network congestion & interruptions)

Admin: Mr Sujay K, Assistant Professor



Summary:

The 5th webinar in the series was conducted on 29th April 2020, there were two speakers, both were students of Automobile Engineering from 2011 -2015 batch of SSET. Mr Arjun and Mr Vishnu are currently employees of J K Tyre Pvt Ltd.

The webinar was started by Mr Arjun who explained the construction of a tyre and the differences between car, truck and two-wheeler tyres. He briefed the participants on how a tyre was designed based on its application. Mr Vishnu who is a Scientist at HASETRI (Hari Shankar Singhania Elastomer & Tyre Research Institute) elaborated on the various methods and processes of testing a tyre to meet the customer's requirements. He mentioned that the tyre would be released for production only after meeting the requirements.

A few glimpses of the webinar.

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Zoom 40-Minutes

You are viewing Arjun Sethumadhavan's screen

View Options

Amal P Dev

Arjun Sethumad...

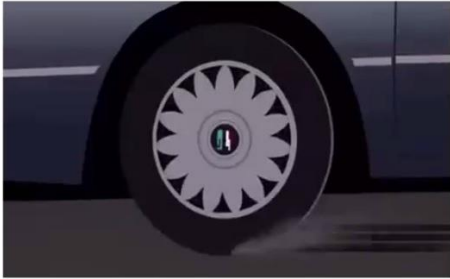
Sujay Kochun...

Koshy Joseph

Vishnu Moorthy

ANEL THOMAS

Tyre technology

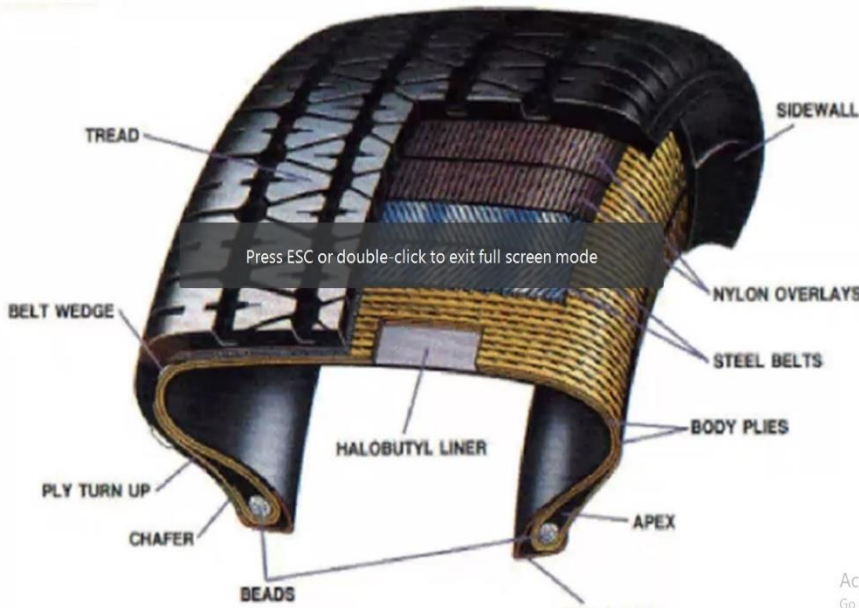


The tires of a mid sized car roll about 500 revolutions for every kilometre. Hence in 50,000kms every tire components experience more than 25,000,000 loading-unloading cycles, an impressive endurance requirement.

You are viewing Arjun Sethumadhavan's screen

View Options

Tyre technology



Press ESC or double-click to exit full screen mode

Labels in diagram: TREAD, BELT WEDGE, PLY TURN UP, CHAFER, BEADS, HALOBUTYL LINER, STEEL BELTS, NYLON OVERLAYS, BODY PLYS, APEX, TOE-GUARD, SIDEWALL.

Amal P Dev

Arjun Sethumadhavan

Sujay Kochunarayanan

Koshy Joseph

Vishnu Moorthy

Activate Windows
Go to Settings to activate Windows.

6) “Jaguar Land Rover Power trains”



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**“Jaguar Land Rover
Powertrains”**

Dr Deepak Hari
Electrification Strategy Lead
Jaguar Land Rover
United Kingdom



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08th May 2020

Time: 2:00 p.m. to 3:00 p.m.

(Log in time @ 1:45 p.m. to account for Network congestion & interruptions)



Admin: Dr Manoj Kumar B, HOD



Summary:

For the 6th webinar in the series, the speaker was Dr Deepak Hari an SSET alumni from the 2004 – 2009 batch of Automobile Engineering. Dr Deepak is currently working for Jaguar Land Rover in Coventry, UK.

Dr Deepak started by discussing the various powertrains developed by Jaguar and what it means to own a Jaguar – “you don’t need a Jaguar, you want one”. He elaborated on the various powertrains that have been developed to meet emission standards especially hybrid powertrains and pure electric power trains.

Dr Deepak also shared the developments of Land Rover and why it occupies a very unique position of being a luxurious vehicle with immense off-road capabilities.

The students during the Q&A session also enquired about the prospects of higher education in the UK and his experience during his Master’s and PhD at University of Bath, UK.

7) "Lockdown - Vehicle Maintenance"



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07

"Lockdown – Vehicle Maintenance"



Mr. Anoop M.S
Assistant Professor
Department of Automobile
Engineering, SCMS



12th May 2020

Time: 7:30 p.m. to 8:00 p.m.

(Log in time @ 7:25 p.m. to account for Network congestion & interruptions)



OPEN
TO ALL

Admin: Dr Manoj Kumar B, HOD



Summary:

The last webinar in the series was dedicated to Vehicle maintenance during the lockdown period. The webinar was meant to give an idea of self-vehicle maintenance during this period of National lockdown where vehicles have very limited to no movement. It will help an average person with very little vehicle knowledge to maintain their car. The webinar was open to the general public and was handled by Mr Anoop M S, Assistant Professor, Department of Automobile Engineering, SSET.

He started the webinar by identifying the easy to reach parts which can be checked for wear and tear and also where the reservoirs for various fluids are.

The webinar was divided into things that can be done before starting our vehicle after lockdown and things to do after starting our vehicle.

A few glimpses from the webinar.

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