

DATE: 27/02/2021

Event

Coordinator(s)

Prof. Shailaja Udtewar

Student

Coordinator(s)

1. Mandar Bagwe

2. Abhishek Sharma

3. Manish Pandian

4. Divij Pawar

5. Omkar Gorhe

6. Mukesh Parmar

Time: -

4pm to 6:30pm

Department:

E-Cell @ XIE

No of participants:

44

The speaker for the event was **Mr. Sampat Acharya** who had completed his Bachelor's in Electronics and Telecommunication from Xavier Institute of Engineering. The speaker has more than 3 years of experience in Automotive Industry, and is currently working in Elect Ray Technologies, Pune as an **Automotive Embedded Software Engineer** and has also worked in American Axle as well as Porsche Global.

The event started with the introduction of the speaker from our Dr. (Fr.) John Rose SJ and Principal Dr. YD Venkatesh. They also said that it is not compulsory that you have to do job/work in your field only, but you can use your knowledge as an application in some other domain as done by our speaker. After this the speaker started sharing his 6 years' journey.

First Mr. Acharya gave us an overview of Automotive industry. He also gave a basic idea of how different parts of car are combined together at an assembly point and what all mechanical, network and electronic systems present in a car. Then he explained about **Electronic Control Unit (ECU)** and how it controls and interact with other sub-systems present in a car. He also explained how all 'network buses' are connected within various systems.

Then the speaker explained the working of **Anti Breaking System (ABS)** and its importance in a car. He further said how the rotational velocity is important base for these systems. Then he explained about **Driveline Systems** and how it transfers power from the engine and transmission to the wheels.

Mr. Archarya also said that **Electric Vehicles** are the future of automobiles. He also said that the demand of electric vehicles is increasing in India on a steady pace every year. He also said that this is the perfect alternative for petrol and diesel and is a lot cheaper than them.

The speaker also presented the simulations of each and every systems and also encouraged us to always think something out of the box. The session ended with the Vote of thanks from the teachers and the members of E-cell XIE.

At the end of our session, the speaker also answered some general questions and queries about the automobile industry and also discussed about the evolving nature of the industry in a unique way. Then Mr. Acharya also addressed the fact that other than Mechanical Engineers, there is also a lot of scope for Computer, IT and EXTC students in this industry. This session was of immense benefit to one and all present.

Images taken during the webinar: -



Join us in an online conversation with Mr. Sampat Acharya on *The scope of IT, EXTC, CS engineers in Automotive industry*

He has more than 3 years of experience in the Automotive Industry . Currently working in ElectRay Technologies, Pune as an Automotive Embedded software developer and has worked with clients like American Axle and Porsche Global.

He will be conducting a session covering topics

1. Overview Of Automotive industry
2. The future of Automotive industry
3. The scope for Electronic, IT and Computer engineers in Automotive
4. Introduction to Electrical vehicles
5. Introduction to AI in Automotive industry
6. Introduction to Driverless technology



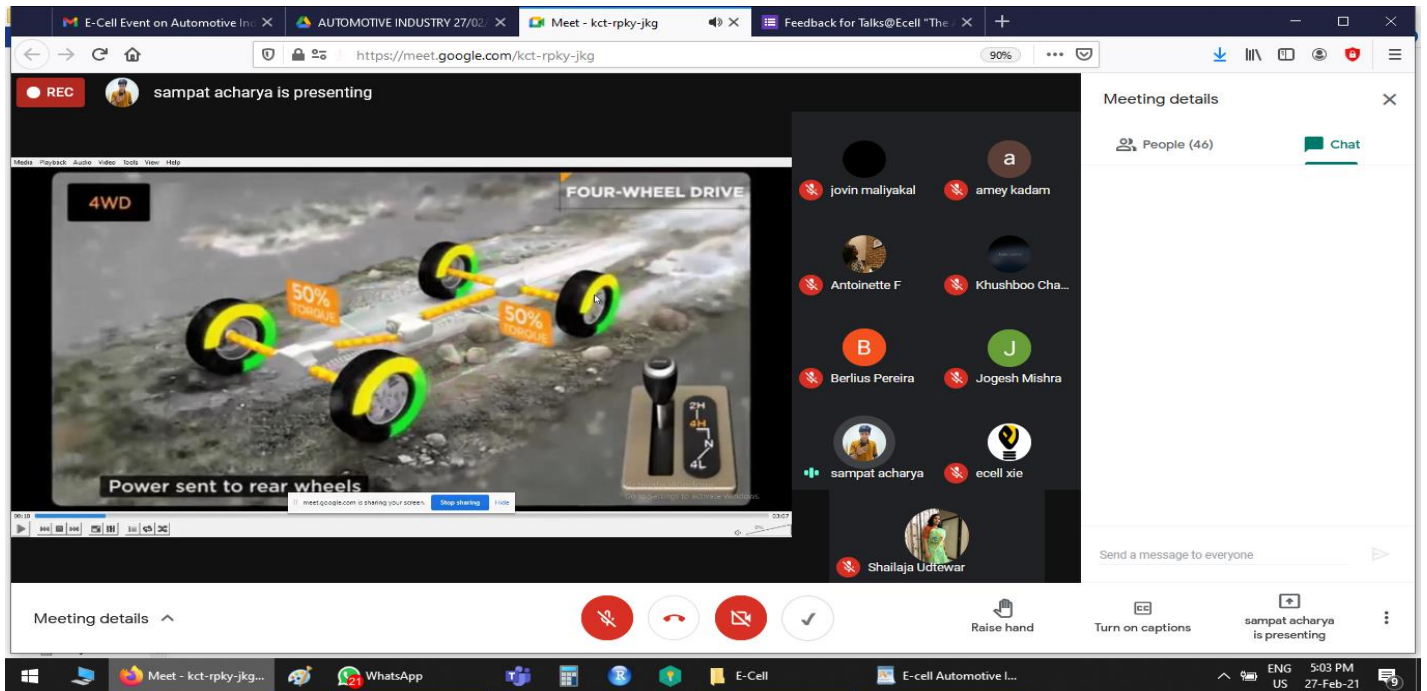
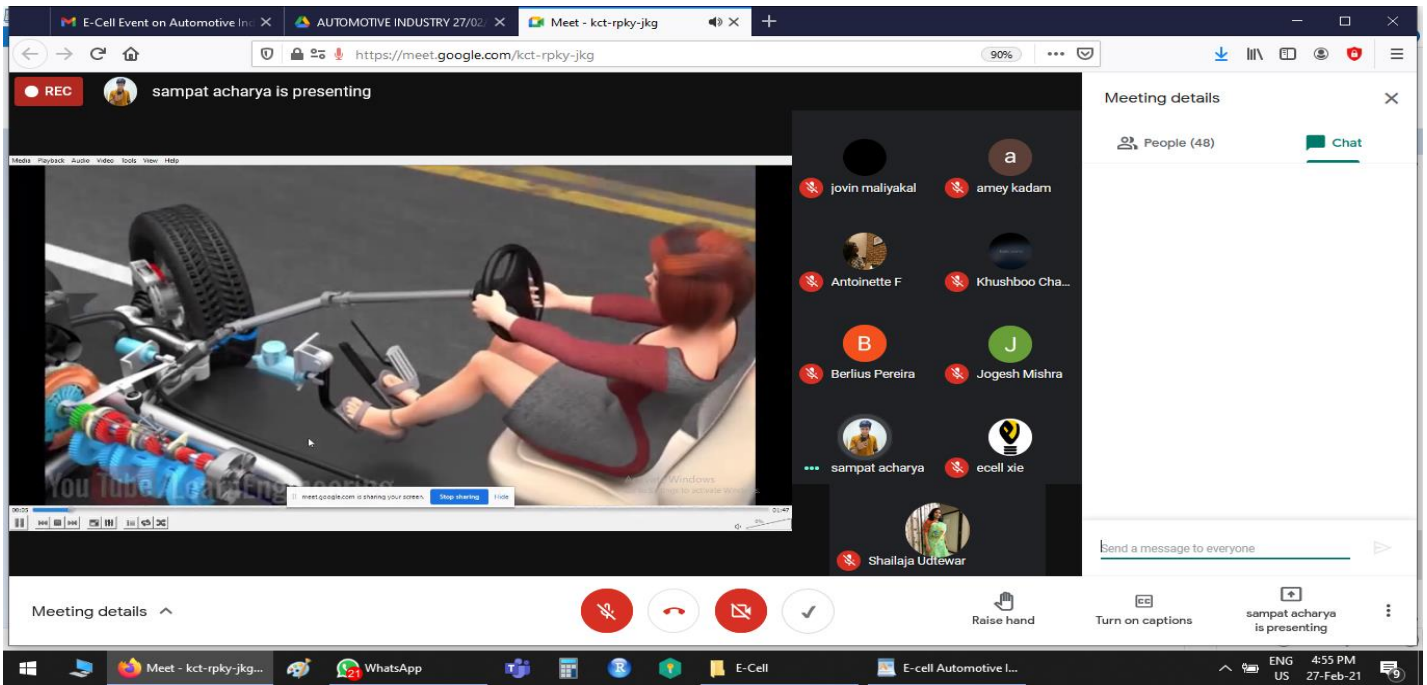
Saturday 27th Feb, 4 pm
on Zoom. Register at link in bio



Meeting interface showing a presentation slide titled "OVERVIEW OF AUTOMOTIVE -By Sampat Acharya". The slide features a car with a transparent body revealing internal components. The meeting controls at the bottom include "Meeting details", "Raise hand", "Turn on captions", and "sampat acharya is presenting". The participant list on the right includes: sampat acharya, Sheena John, John Rose SJ, Y D Venkatesh, Swapnil Desai, amey kadam, jovin maliyakal, and Adwait Joshi.

Meeting interface showing a presentation slide titled "network.jpg" which is a CAN bus diagram. The diagram shows a car chassis with various electronic components connected to different CAN bus lines. A legend at the top left identifies the bus types: Low Speed Interior CAN Bus (yellow), High Speed Underhood CAN Bus (green), Dedicated Powertrain High Speed CAN (blue), Dedicated Safety Systems High Speed CAN (red), and LIN Bus (purple). Components shown include: Trans Control, Engine Control, Power Module, ABS Control, Amplifier Module, HVAC Control, Radio Control, OPSNAV Display, Cluster, Diagnostics Port, Handoff/Free Module, Occupant Classif., Airbag Control, Door Node, DVD/Video, Seating Control, CD Changer, Satellite Radio, and Body Control.

The meeting controls at the bottom include "Meeting details", "Raise hand", "Turn on captions", and "sampat acharya is presenting". The participant list on the right includes: John Rose SJ, sampat acharya, ecell xie, Sheena John, jovin maliyakal, Shivam Mishra, amey kadam, Khushboo Cha..., and Antoinette F.



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