

GIT AUTOWAVES



NEWS LETTER

MARCH | 2022

Department of Automobile Engineering

For the last 100 years, automakers have focused on the mechanical side of car development and have mostly left software to other parties," said Pedro Pacheco, senior research director at Gartner. "As digital technology becomes the differentiator in the car, software will become the main profitability growth driver for automakers. Ultimately, the goal for original equipment manufacturers (OEMs) will be to turn into tech or software companies."

For a few years now, disruption in the automotive industry has been forcing automotive OEMs and Tier suppliers to adapt. The market trend referred to as C.A.S.E. (Connectivity, Autonomous, Sharing/Subscription and Electrification) is still going strong, while digital technologies continue to transform the mobility landscape as well as the development processes used in the automotive sector. Let's see what trends are expected to shape the auto industry in 2022!



What's Inside

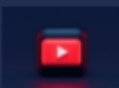
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GREGORIAN INSTITUTE OF TECHNOLOGY(GIT),KANGAZHA, KOTTAYAM



<http://gitgroup.ac.in/deptautomobile.php>



<https://www.youtube.com/channel/UCjY3EolbuqOV41tZeUtTn1g>



<https://www.facebook.com/Dept-of-Automobile-Engineering-GIT-Kottayam-100231035965701>

Made with VISME

Luxury Volvo bus for KSRTC-SWIFT arrives

Bringing tough competition in the inter-State bus service sector, the Kerala State Road Transport Corporation (KSRTC) has entered the fray with luxury air-conditioned Volvo sleeper class buses under its new subsidiary firm SWIFT.

The much-awaited bus that conforms to Euro-VI emission norms joined the fleet of premium buses of KSRTC-SWIFT, a new company floated by the Corporation for long-distance services.

Each bus delivered by V E Commercial Vehicles Private Limited (Volvo) costs ₹1.38 crore. The specially designed buses, fueled by an 11-litre engine with 430 HP power, provides a comfortable travel experience to 40 passengers in total in berths.

Considering the safety of passengers, all these buses will have dual camera and vehicle location-tracking devices.



Luxury roadster

Redefining Progressive Luxury



Redefining premium mobility

The Audi sky sphere concept is the first in a family of Audi concept cars. The cars were developed with one goal: to envision an automotive future where the car becomes an interactive space and experience device. The electric two-door roadster combines the vision of automated driving, a revolutionary new interior design, and a fully integrated digital ecosystem.

With the touch of a button, the 4,940mm long electric roadster can be either piloted in "Sports" mode with a reduced wheelbase, or can choose to be chauffeured around in a 5,190mm GT version with autonomous mode. The steering wheel and pedals move into an invisible area in this area, while the Sky sphere automatically keeps an eye on the road and traffic with its sensor system. An electric motor positioned on the powered rear axle is responsible for delivering a total of 465kW of power and 750NM of torque. The 1,800kg concept EV has its weight distributed around 60 per cent on the rear axle, which allows it to accelerate from 0 to 100kmph in just 4 seconds. The battery's capacity is expected to be more than 80kWh, giving the car a range of more than 500km according to the WLTP standard in GT mode. Audi did not share specifics of the roadster.



The Top Automotive Technology Trends in 2022 and Beyond

Autonomous Vehicles (AVs)

Autonomous vehicles have been all the rage in recent years, and for good reason: most carmakers see the race towards Level 4 vehicle autonomy (high driving automation) as key to their success in the future of the mobility market. Self-driving technology is expected to contribute to a reduction in greenhouse gas emissions, the number of accidents, transportation & travel time and costs, and more. The 2021 Mercedes-Benz S-Class comes equipped with all the gadgets required by Level 4 (de facto self-driving), bringing this level of autonomy within reach.

In the meantime, truck platooning requires similar technologies but way less autonomy while bringing significant benefits in freight transport. A feature unlocked by V2V (vehicle-to-vehicle) connectivity, trucks traveling at high speeds can line up behind each other to save fuel – which fuel could easily be replaced by hydrogen fuel cells in coming years.

New tech to boost car infotainment

Carmakers have been toying with the idea of using technologies like Augmented Reality in their cars, claiming that AR-based window displays could be used to improve safety. In fact, several models announced for release in 2022 already sport AR solutions, projecting relevant driving data and navigation information on the windscreen.

Hydrogen fuel cell technology

2022 is seen as the year fuel cell electric vehicles will finally make their real debut. While the technology itself has been around for a good while (with the concept being first demonstrated in the early 19th century), more stringent regulations on emission control were needed to really advance innovation in the field.

Using hydrogen as a fuel source could greatly support environmental goals globally: fuel cell-powered EVs charge faster, have a longer effective range than traditional EVs, and only emit water as a byproduct of their functioning.

Of course, the infrastructure to refuel these cars is still mostly lacking, but decision-makers in the UK, EU, and around the world are making progress.

Cars like the Toyota Mirai, one of the first commercial applications of fuel cell technology in a mass-produced car, are expected to pave the way for this clean technology – we'll see if 2022 will be the year it finally makes a breakthrough.





GIT GALLERY



International Women's Day Celebration



Donation of food packets by GIT NSS Unit



Alumni Association Executive Committee Meeting

ANNUAL SPORTS MEET

March 2022



Sports Meet Inauguration



Automobile Football Team



Automobile Volleyball Team



Carrom Tournament

ACHIEVEMENTS

"People who achieve their goals do so with passion, planning, persistence and purpose."



ALBIN ABRAHAM
(2019-2022 AU BATCH)

*Completed VoC Training) & submitted
ideas in the Young Innovators
Programme (YIP) conducted by the
Kerala Development and Innovation
Strategic Council (K-DISC)*



BEVAN MATHEW VARGHESE
(2019-2022 AU BATCH)



Congratulations to GIT IEDC Team for the great achievement.....!!!



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Upcoming Events.....!!
Tech Fest & Cultural Fest
Industrial Visits
International Conference

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