

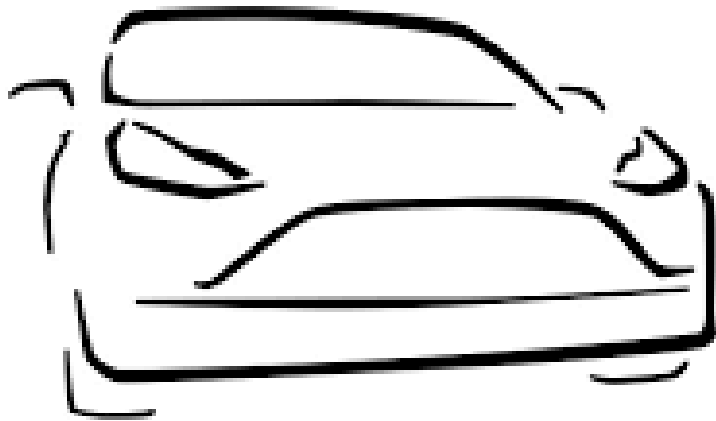


INFORMATICS
INSTITUTE OF
TECHNOLOGY

Foundation Program in Higher Education

Module: DOC311 Academic Skills for Higher Education

Module Leader: Ms. Antoinette Hettiarachchy



Evolution of the Motor Car

Group : A1

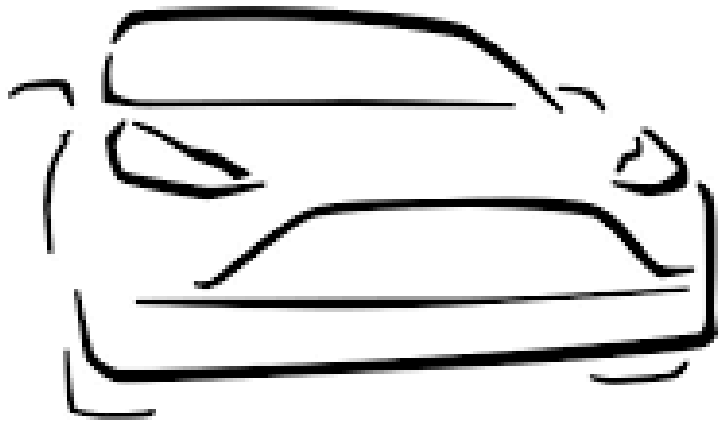
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Introduction

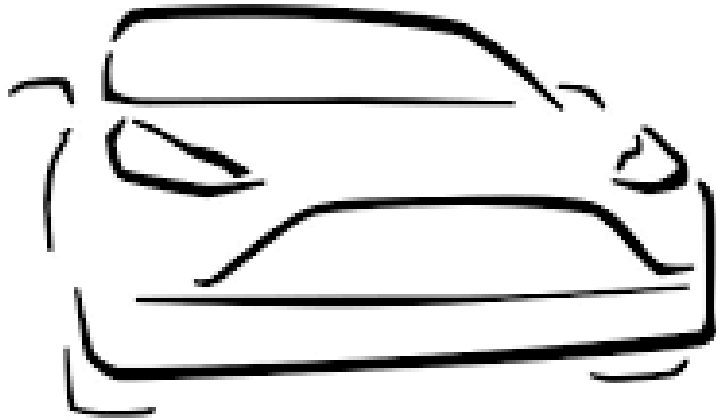
Cars are an amazing invention. They've made the lives of millions of people very convenient.

Cars have no 'one' inventor. They were developed gradually throughout the course of time, with the addition of parts like the engine, wheels, gears, etc.

Motor cars nowadays contain more sophisticated technology like the GPS system for navigation, parking sensors, smartphone integration and so on.

We will certainly witness even more advanced features in motor cars in the near future, with the rapid advancements in technology and the motorcar industry.

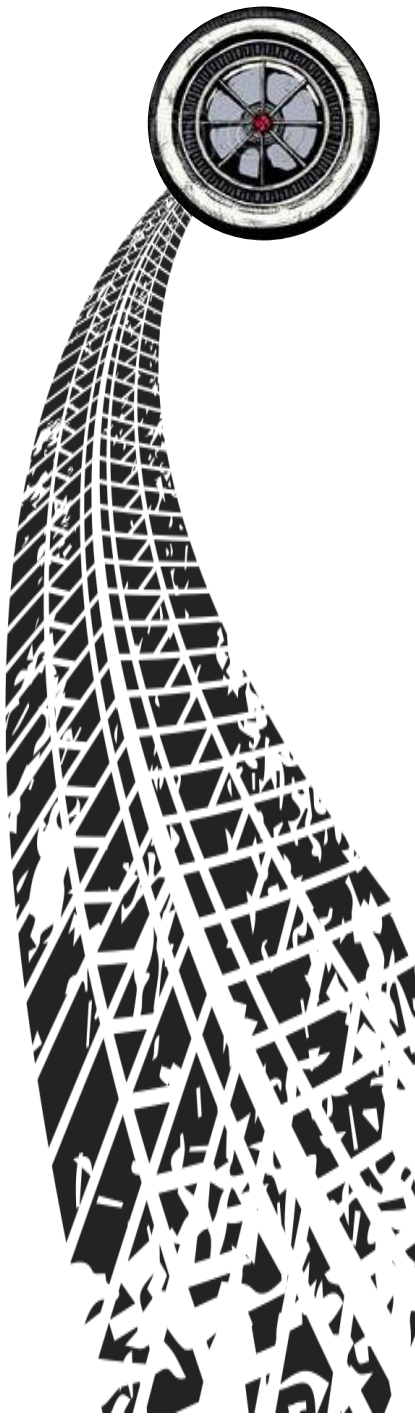




Evolution of Motor Cars in the Past

History of motor cars

- Leonardo da Vinci was the first person to create designs of motor cars.
- Nicholas-Joseph Cugnot built a self-propelled vehicle with a steam engine in 1769.
- Karl Benz invented the world first car in 1886.
- Henry Ford announced the Model-T in 1908.
- Manufacturers made military vehicles in support of world wars and use the research to make better performing cars.

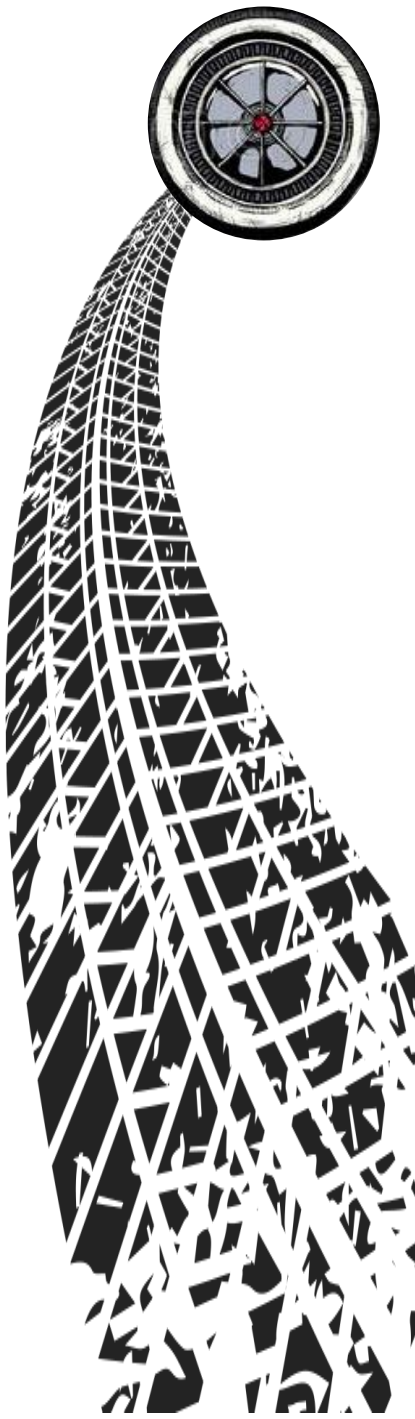


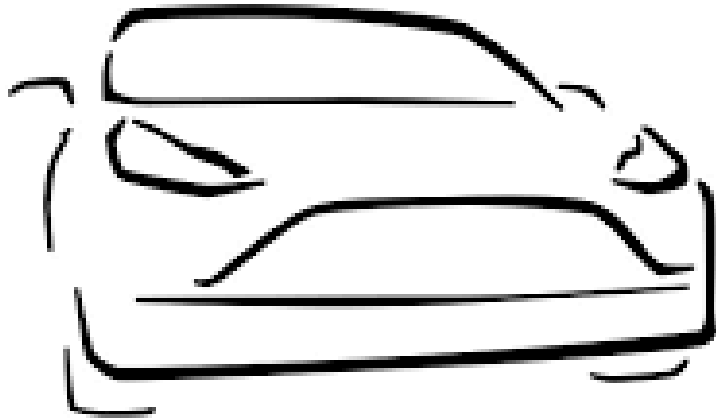
Engine of Motor Cars

- What is an Internal combustion engine?

Engine that burns fuel to move piston in order to turn crankshaft that is connected to wheels.

- Jean Joseph Etienne Lenoir's engine -1858
- Practical oil engine-1873
- Prototype of the modern gasoline engine-1876
- Diesel engine-1895

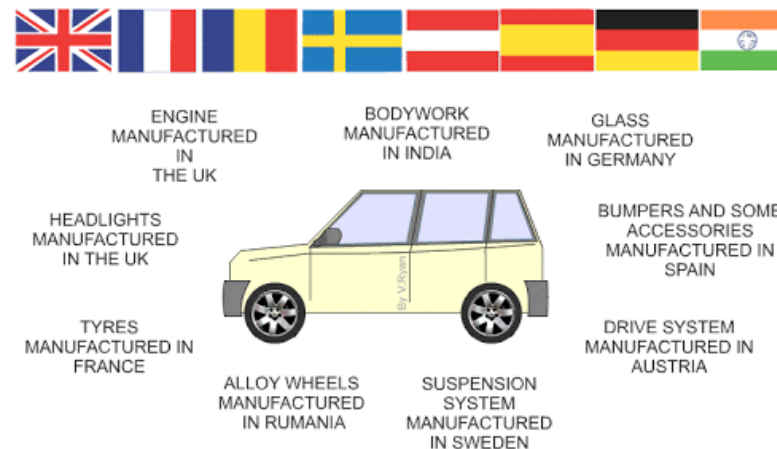




Evolution of Motor Cars in the Present

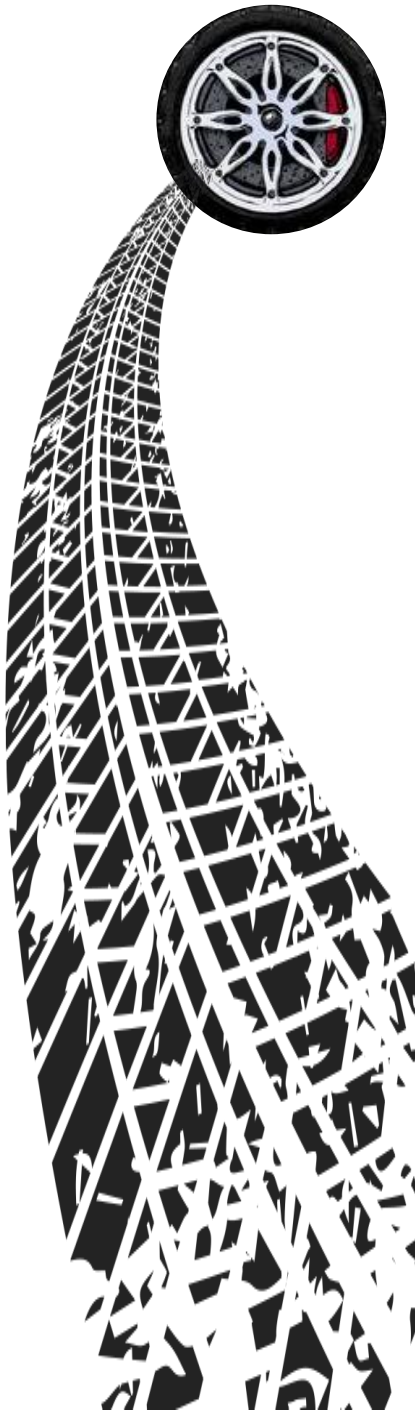
Globalization and the Automobile Industry

- Back in the day, car makers used to compete against each other; at present, they cooperate instead and this is due to globalization.
- With globalization, multinational companies have emerged, where car makers of different countries work together to design new cars.
- Furthermore, car plants in one country build vehicles for more than one maker.



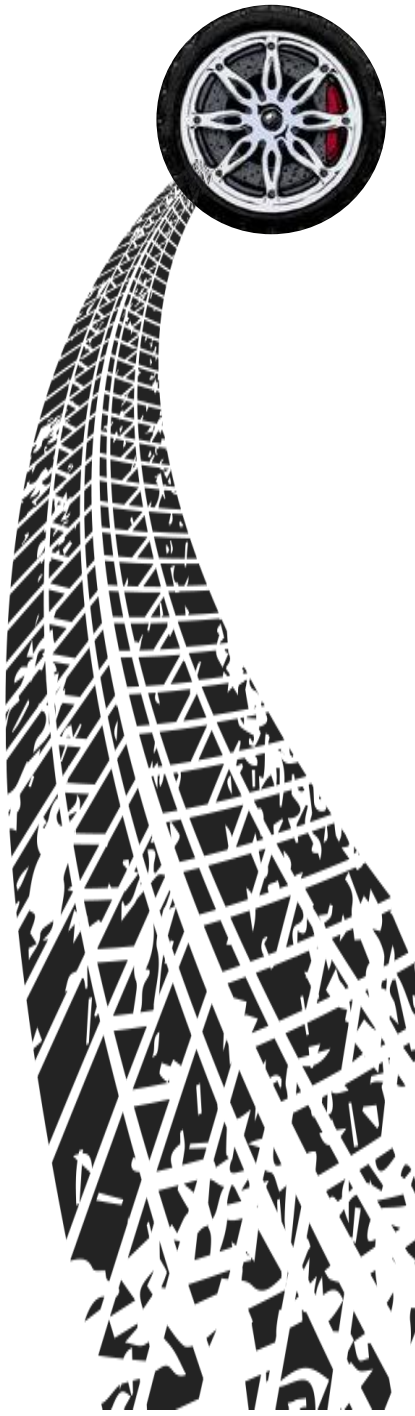
Car Industry in the UK

- In the past, Britain was the world's second-biggest producer of cars.
- Britain's car industry provided jobs for over a million people.
- Unfortunately, this declined over time.
- Presently, the only big car plants left in Britain are foreign-owned.



Car Industry in China

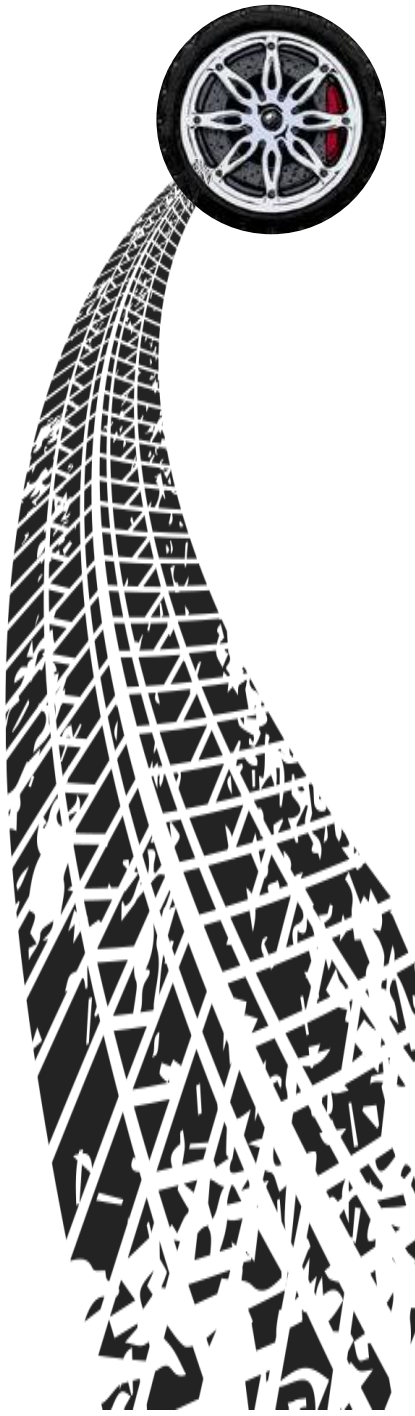
- China has the world's fastest-growing car market and attracts a lot of car makers at present.
- China's biggest car maker, Shanghai Automotive, has already formed powerful alliances with firms like Fiat, General Motors, and Volkswagen.

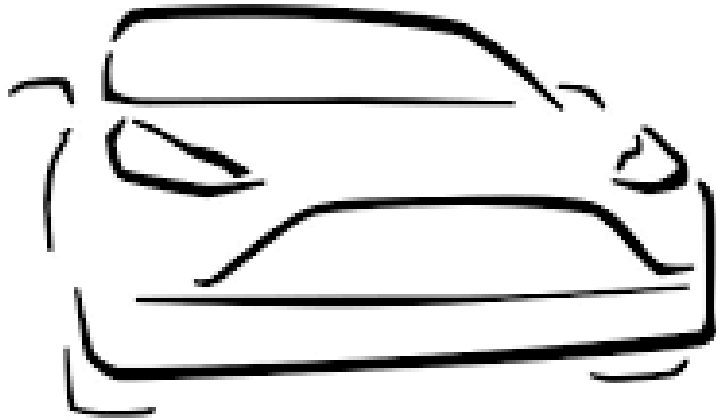


Electric and Hybrid cars

- Electric and hybrid cars were introduced in 19th century.
- First rechargeable battery was invented in 1865 by Gaston Plante.
- German engineer Ferdinand Porsche invented the first hybrid car in 1900.

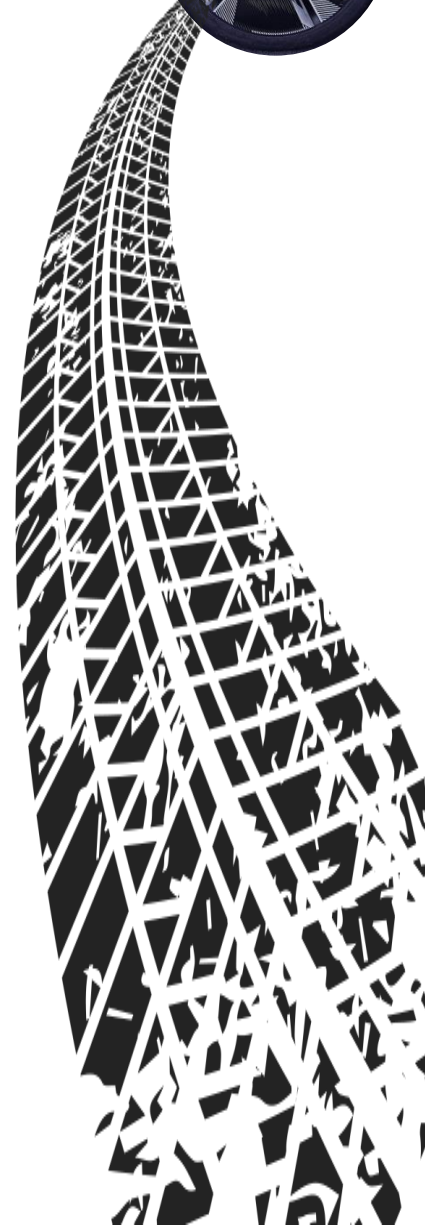
Even though the concepts were invented earlier electric and hybrid vehicles became popular in recent years.

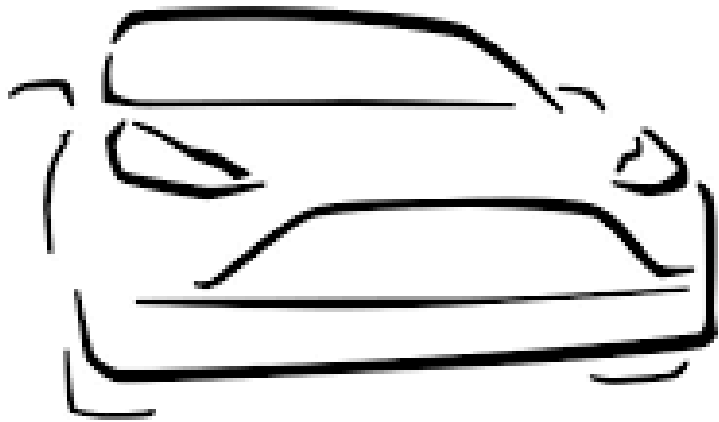




Possible Evolution of Motor Cars in the Future

- More Fuel-Efficient Rides (Hybrid Vehicles).
- Self-Driving Technology.
- Cars-as-a-Service (CaaS).





Conclusion

Recommendations

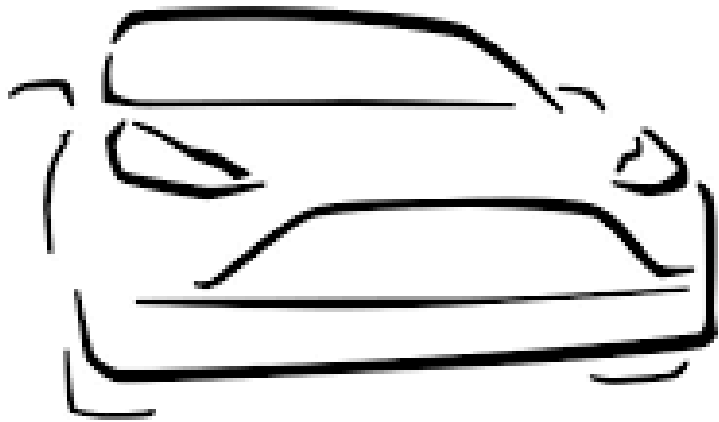
- Car makers should find ways to make more cost-effective vehicles.
- Car makers can design their vehicles out of eco-friendly materials as a way of reducing pollution caused by vehicles to the environment.
- Adding on more safety features to types of cars used by consumers the most to ensure increased safety of passengers is also recommended.



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Questions?