**1.IT in Auto-mobiles:**

In modern generation, Information Technology has become one of the most important sector in auto mobile industry in making vehicles smarter with safety and more efficient. It enables advanced driving assistance systems like automatic driving, automatic braking, automatically keeps in straight lane etc.IT provides connectivity features for the vehicles like GPS tracker, traffic updates, accessing it with remote or smart phone through app etc. It also helps in designing cars, in developing prototypes, monitors products performance, improve its efficiency and safeguard travelling. IT’s main role is to increase safety in cars and reduce the probability of accidents. As the modern industry s moving towards electric and connected vehicles, IT plays a crucial role in ensuring smooth and efficient connection between the hardware and software components ensuring safe and sustainable transportation.

**2.IT in Metro Systems:**

The implementation of IT sector in Metro systems has made urban transportation into smooth and efficient in convenient to the customers. It enhances smart card systems and mobile ticketing for the customers to travel in less time. CBTC’s (Communication Based Train Control) are for train automation and efficiency. Passengers will get the Information regarding the train scheduled time, delays etc. With this the operational costs are reduced, improves passenger convenience and safety and we can use resources efficiently. IT also ensures safety for customers by predicting the AI-driven threat detection, CCTV monitoring.

**3.IT in Avionics:**

Information Technology plays a crucial role in avionics. It is considered as a backbone of modern avionics. It mainly focuses on safety, efficiency, and comfort for the passengers while travelling in air. IT sector is used in advanced flight management systems, auto pilot mode, navigation tools, which reduce human error and navigate tools that helps in decision making in absence of a pilot. IT also plays a vital role in communication between aircraft and ground control which ensure safe air traffic management. It also ensures personalized entertainment systems for passengers. It also helps in GPS and advanced navigation systems for accurate routing. It benefits in enhanced safety and reliability, improve operational efficiency, better passenger experience etc.