



Traffic engineering is a method of civil engineering that helps to optimize the performance and efficiency of the movement of people, goods, and transportation. The main objective of traffic engineering is to provide for the safe, rapid, comfortable, efficient, convenient, and environmentally compatible movement of people, goods, and services.



Traffic congestion has become a serious "Urban Illness", and it results in problems such as travel time delay, increase of traffic accidents, rise of fuel depletion, survival environmental degradation and so on. It severely affects the city's normal function and its sustainable development.



The ultimate goal of multimodal transportation networks is to ensure the safe and efficient movement of people and goods on roads and highways. Traffic engineering helps resolve the issues that obstruct that process. Beyond the design and construction of transportation infrastructure, traffic engineering focuses on the functional aspects of road geometry that make traffic flow, including traffic signs, signals, intersection management and road surface markings.



What will you Learn?

Traffic Planning and Characteristics, Traffic Surveys, Traffic Design and Visual Aids, Traffic Safety and Environment, Traffic Management.

Course outcomes:

After studying this course, students will be able to:

1. Understand the human factors and vehicular factors in traffic engineering design.
2. Conduct different types of traffic surveys and analysis of collected data using statistical concepts.
3. Use an appropriate traffic flow theory and to comprehend the capacity and signalized intersection analysis.
4. Understand the basic knowledge of Intelligent Transportation System.

Course : Traffic Engineering

Course Code : 18CV652

CIE Marks : 40

SEE Marks : 60

Credits 03



Job role

Career path for traffic engineers is to work for a municipal, state or federal government agency, addressing traffic issues in an official capacity as City traffic engineer or engineer in a traffic management center.

A number of posts offer job possibilities in both the private and public sector, such as road designer. Private traffic consultants who work with both private and public sector clients also make a living in this area.