Course Name:
Transportation Planning

Course Number:
20591

Credit:
3

Course Content (outline):
1. Introduction
   • Transportation Planning History
   • Transport and Urban Structure

2. Transportation Planning Process
   • System Planning
   • Level and Scope of Planning - Planning Tools

3. Transportation Issues
   • Goals and Objectives

4. Data Collection
   • Zoning
   • Surveys
   • Source of Data

5. Land Use
   • Population Projection
   • Employment Projection

6. Demand in Transportation
   • Four Steps Demand Forecasting: Trip Generation, Trip Distribution, Travel Mode, Traffic Assignment

7. Supply in Transportation
   • Transportation Network
   • Network Equilibrium Traffic Assignment

8. Urban Transportation Challenges
   • Urban Travel Context
   • Pollution
   • Noise

9. Decision Making Process
   • Transportation Solutions
   • Evaluation Methods

10. Transportation Systems Management

11. Comprehensive Transportation Plans

12. Other Topics

13. Conclusions

References:

