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:
1. Morlok, E.K., Introduction to Transportation Engineering & Planning, McGrew-Hill, New York, 1978.

2. Hutchinson, B.G., Principles of Urban Transport Systems Planning, McGrew-Hill, New York, 1974.

3. Dickey, J. W., R. C. Stuart, R. D. Walker, M. C. Comingham, A. G. Winslow, W. J. Diewald, & G. Day Ding. Metropolitan Transportation Planning, McGrew-Hill, New York, 1975.

4. Khisty, C. J., Transportation Engineering, Prentice Hall, Englewood Cliffs, 1990.