TOPICS: Quantitative and computerized techniques for planning, designing, and operating transportation systems considering

- System capacities and flows
- Large scale and urban freight; Public Transportation Systems
- Adopting state-of-the-art theories

Course Delivery:

Lecture: based on Modeling Transport (Ortuzar and Willumsen) & Transportation System Analysis (Cascetta)

Lab: using CUBE® Emerging Transportation Planning Software (www.citilabs.com)

Other components:

- Economic Growth Factors for Trip Generation
- Gravity Trip Distribution
- Discrete Mode Choice
- Equilibrium & Dynamic Trip Assignment
- Model Validation using Traffic Counters