

SC10041

Urban Transportation Management Theory

**Credits** 2 credits

**Semester** Second Semester (every year)

**Instructor** NAKAMURA, Fumihiko

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### **1. Objectives**

The goal of this course is to discuss applied theory of urban transportation planning based on the view of risk management through the reading academic paper and literature in English. All of this course will be conducted in English.

### **2. Topics**

- 1 Introduction
- 2 Aggregate Modeling
- 3 Disaggregate Modeling
- 4 Activity Analysis
- 5 Induced Demand Analysis
- 6 Cost Modeling
- 7 Highway Cost Analysis
- 8 Transit Cost Analysis
- 9 Cost-Benefit Analysis
- 10 Scenario Planning Analysis
- 11 Strategic Choice Approaches
- 12 Pricing Theories and Cases
- 13 Evaluation Models(1)
- 14 Evaluation Models(2)
- 15 Final Examination

### **3. Textbooks / course materials**

Textbooks : Nothing

Course materials : K.Small : Urban Transportation Economics

### **4. Goals**

The goal of this course is to understand applied theory of demand analysis, cost analysis, and evaluation model on urban transportation planning.

### **5. Methods**

Manifesting issues per lecture and discussing issues based on course material.

### **6. Prerequisites and related courses**

Report 40%

Final Exnamination 60%

### **7. Course requirement / Grading**

Advanced Transportation Planning (OKAMURA)

Advanced Traffic Engineering (OKAMURA)