

**** GC10008****Advanced Transportation Planning****Credits** 2 credits**Semester** Second Semester (every odd year)**Instructor** OKAMURA, Toshiyuki**Contact** Civil Eng. Bldg. Rm203 ext.4032 tokamura¥6547¥ynu.ac.jp**1. Objectives**

To study various analytical methodologies on urban transportation planning and to grasp the recent trends of transportation planning field both in developed and developing countries.

2. Topics

-Project Evaluation on Transport (4 weeks)

Project evaluation methods

Theory of cost benefit analysis

Application of cost benefit analysis on transport project

Economic evaluation on environmental goods

-Survey and analytical methodologies for transportation demand forecasting (5 weeks)

Urban transportation survey schemes

Transport demand forecasting model: 4 step models

Transport demand forecasting model: disaggregate model (2 weeks)

Other transport survey and its perspectives

-Regulatory and financing system for urban transportation development (5 weeks)

Financing schemes of transportation infrastructure

Regulatory framework of transportation firms (2weeks)

Financing and regulations of urban public transport systems (2weeks)

3. Textbooks / course materials

Textbook: Not specified.

4. Goals

The goals of this course are to understand important frameworks and analytical methodologies of urban transport planning and operation

5. Methods

The lecture is based on paper materials.

6. Prerequisites and related courses

Bachelor level of Transport Planning and Engineering are required.

Advanced traffic engineering, Advanced spatial planning, and Advanced theory of environmental systems

7. Course requirement / Grading

Two assignments (40%) and the final examination (60%)