

Transportation and Urban Design Studio E for the Graduate Course of Civil Engineering in 2019 Autumn Semester (A1)

Lecturers:

Prof. Eiji Hato*, Prof. Takamasa Iryo*, Prof. Ryuichi Shibasaki**, Dr. Yuki Oyama***

* Professor, Transport Research and Infrastructure Planning (TRIP) Lab.

** Associate Professor, Department of Systems Innovation, School of Engineering,

*** Assistant Professor, Research Center for Advanced Science and Technology.

Teaching Assistant: Dr. Sachiyo Fukuyama (Researcher, TRIP Lab)

Place and Time:

in Lecture Room No.13 of Engineering Bldg No.1, on Monday and Thursdays 13:00-14:45

Purpose and Contents of the Course:

This course focuses on learning some of methodologies to analyze transportations and regions, which are sometimes vulnerable to natural hazards. In addition to it, getting used to the essence of the basic way of theoretical and mathematical thinking in planning is another main target. For fulfilling these purposes, we choose three topics: 1) Traffic flow theory and modelling, 2) Logistics management and analysis, 3) Travel behavior modelling.

Schedule of the Course:

Topic 1: Traffic Flow Theory and Modelling, by Prof. Iryo and Prof. Hato

- 1) Sep. 26 Traffic Flow Theory and Modelling (1)
- 2) Sep. 30 Traffic Flow Theory and Modelling (2)
- 3) *Oct. 1 (8:30-10:15) Traffic Flow Theory and Modelling (3) *Date and Time are changed
- 4) Oct. 3 Final Exercise for Topic 1

Topic 2: Logistics Management and Analysis, by Prof. Shibasaki and Prof. Hato

- 5) Oct. 7 Logistics Operation and Advanced Methodologies (1)
- 6) Oct. 10 Logistics Operation and Advanced Methodologies (2)
- 7) Oct. 21 Logistics Operation and Advanced Methodologies (3)
- 8) Oct. 24 Final Presentation for Topic 2

Topic 3: Travel behavior modeling, by Dr. Oyama, Dr. Fukuyama and Prof. Hato

- 9) Oct. 28 Travel Behavior Modelling (1)
- 10) Oct. 31 Travel Behavior Modelling (2)
- 11) Nov. 7 Travel Behavior Modelling (3)
- 12) Nov. 11 Travel Behavior Modelling (4)
- 13) *Nov. 13 Final Presentation for Topic 3

*Date is changed according to the schedule of the Graduate School of Engineering

5. Evaluation of the Achievement

Assignments in each of the three topics (30 points @ 3), and attendance points for classes (10 points)