** GC10008  
Advanced Transportation Planning

Credits  2 credits  
Semester  Second Semester (every odd year)  
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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  
   - Regulational and financing system for urban transportation development (5 weeks)  
     Financing schemes of transportation infrastructure  
     Regulational 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%)