

# Sustainable Urban Management

Hosted by the University of Tokyo  
20 June ? 5 July, 2011

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## Course Description

This course is offered by Department of Civil Engineering, Department of Architecture and Department of Urban Engineering as an activity of G-COE (Global Center of Excellence) project ([http://csur.t.u-tokyo.ac.jp/index\\_en.html](http://csur.t.u-tokyo.ac.jp/index_en.html)). Although these departments belong to School of Engineering, students from non-engineering field are welcome.

The course provides basic knowledge of civil engineering, architecture and urban engineering in the context of sustainable urban management. Planning and management from building, urban and national scale are taught. A one-day excursion related to the lecture will be organized for GSP students as part of the course.

Students may take this course concurrently with the Nanoscience, Japan in Today?s World GSP and Introduction to the Japanese Language courses offered by the University of Tokyo.

## Target Audience

Primarily for undergraduate students, although graduate students may apply. Students from non-engineering fields are also welcomed.

## Delivery Method, Exams & Learning Outcomes

Lecture: 13 classes × 90 mins

Study visit/excursion: 8 hours

1. Introduction ? Invitation to Sustainable Urban Management

2. Urban Engineering aspects

- Sustainability indicators for urban management
- Urban and Regional Planning in Japan
- Sustainable Management of Urban Water Systems
- New Roles and Missions of Sewage Works

3. Architectural aspects

- Housing Technologies for Sustainable Urban Regeneration
- Learning from Edo-Tokyo History for Sustainable Urban Redevelopment
- Air, Water and Energy system in Sustainable Building
- Design Ecology and Material Systems in Architecture

4. Civil Engineering aspects

- Urban Soil & Underground Management
- Urban Stock Management
- Urban Transport Management
- Urban Flood Management

This course is awarded 1.5 credits at the University of Tokyo. Your grade is determined based on a short quiz given in each class (13 in total) and 1 written final report of a few pages about the overall lecture topic. The evaluation weight of short quiz and report is 2:1. The 9 best scores of the short quiz will be used in the grade evaluation. Grades will be given as A, B, C or Failure. Attendance of at least 9 classes is required unless you obtain special permission in advance. Submission of the final report is compulsory.

Professors from Civil Engineering, Architecture and Urban Engineering will conduct this course. The course coordinator is Prof Keisuke HANAOKI (Graduate School of Engineering)

## Accommodation

Students will be accommodated in Hotel Kizankan, located close to the University of Tokyo's Hongo Campus (Approximately 5 minutes walk). For further information about the Hotel Kizankan, visit: <http://www4.ocn.ne.jp/~kizanweb>

## Costs

*Note: Costs may change closer to the course*

**Tuition fee:** JPY 22,200

**Accommodation:** JPY 85,000 (does not include meals and other costs)

**Estimated living expenses:** approximately JPY 3,000 per day

## Further Information

For further information about this course, visit [http://www.adm.u-tokyo.ac.jp/res/stuex/IARU\\_GSP/index.html](http://www.adm.u-tokyo.ac.jp/res/stuex/IARU_GSP/index.html)

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## THE BASICS:

### Lecturers:

Professors from Civil Engineering, Architecture and Urban Engineering  
Prof Keisuke Hanaki (TOK)

**Tuition:** JPY 22,200

### Accommodation:

JPY 85,000

### Target audience:

Mainly undergraduate students.

### About the University of Tokyo:

Founded in 1877, the University of Tokyo (Todai) is a prestigious leading university that provides a full spectrum of academic activities which allows students to develop intellectual depth while acquiring professional skills. It has been a supportive collaborator in various IARU initiatives such as the Global Security and Sustainable Cities research projects. The spirit of perseverance towards the creation of a global research and education network distinguishes Todai from its peers. With its belief in the value of providing a varied academic environment, Todai brings an inherent richness of culture in its engagement with the Alliance. For more information, visit: [http://www.u-tokyo.ac.jp/index\\_e.html](http://www.u-tokyo.ac.jp/index_e.html)

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<http://www.iaru.ethz.ch/gsp/courses2011/tokyo/04/profile>