

Prospectus for October 2011 Matriculation

GRADUATE PROGRAMS FOR FOREIGN STUDENTS
IN
URBAN AND ENVIRONMENTAL STUDIES

May 2010

DEPARTMENT OF URBAN ENGINEERING

GRADUATE SCHOOL OF ENGINEERING

THE UNIVERSITY OF TOKYO

FOREWORD

The Department of Urban Engineering at the University of Tokyo was established in 1962 to undertake pioneering research and to contribute to the University's reputation for academic excellence. Both research and teaching within the department primarily focus on two areas: environmental engineering and urban planning. This brochure contains information for foreign students applying to study in this department including financial assistance under the Monbukagakusho-Scholarship program. During its 25-years history of the scholarship program in our department, the Monbukagakusho-Scholarship program has helped over 100 students achieve their degree goals. If you wish to study with us, please fill in an application form and return it to our Foreign Student Office. We welcome all qualified students.

May 10, 2010



Professor Keisuke HANAKI
Chairman, Department of Urban Engineering
Graduate School of Engineering,
The University of Tokyo

FIELDS OF STUDY

Environmental Engineering

As the number of mega-cities around the world increases, it has become urgent to find solutions to water supply, wastewater treatment and urban drainage, solid waste management, air pollution control, hazardous waste management, and other urban environmental problems. Yet the solutions to these problems are not only found at the urban level. Therefore research in the environmental engineering is not just limited to the urban scale. We also undertake regional and global studies on such issues as climatic change. Our unique approaches to tackling these problems are leading research communities within Japan and throughout the world. State-of-the-art technologies are applied to solve environmental problems in first class experimental facilities outfitted with the newest computer technologies.

Urban Planning

Increasingly, the role of urban planners is expanding. Since urban problems are inherently multi-faceted, interrelated and complex, physical planning demands an ever broadening knowledge of both theoretical issues and practical concerns. In order to prepare students for these tasks, the department's study programs cover land-use planning, housing, urban analysis, urban design, landscape design, national and regional planning, urban disaster prevention and transportation issues in both developed and developing countries. Students are also expected to gain technical training in the use of Geographic Information Systems (GIS) and/or Internet technologies.

Also, studies in legal and organizational issues, historical assets and environment preservation, city management, the role of public and non-profit organizations, Intelligent Transport Systems (ITS) and other subjects are available.

General Guidance

The Graduate School of Engineering offers April (summer) and October (winter) semesters. All Monbukagakusho Scholars must matriculate in October 2011. All new comers are immediately required to join the Japanese Language Class offered in the Department of Urban Engineering for a period of not less than 6 months.

**GRADUATE
PROGRAM****Master's Program**

Full time attendance for two years is required for the degree of Master of Engineering. Master's students must take courses in urban and environmental engineering offered in either English or Japanese. Most students enroll in lecture and seminar courses during their first year, and spend the second year researching and writing their theses. All master's students must successfully defend their academic progress at least twice in a year.

Only applicants holding, or soon to be awarded, a bachelor's degree from an accredited university are eligible for master's degree studies.

Doctoral Program

At least three year's research and study are required for the degrees of either Doctor of Philosophy or Doctor of Engineering. Although class attendance is not required for doctoral students, most students at this level take classes in their specific areas of interest. All doctoral students must successfully defend their academic progress at least once in a year. Only applicants currently holding, or are soon to be awarded a master's degree from an accredited graduate school are eligible for doctoral degree studies.

**Asian Program for Incubation of Environmental Leaders
(APIEL)**

Both Master's and Doctoral students are able to sign up for APIEL. This program was established in 2008 by the University of Tokyo to foster environmental Leaders in Asia. Those who successfully complete this program will gain "Certificate of International Environmental Leadership" in addition to the degrees mentioned above. This program is funded by Special Coordination Funds for Promoting Science and Technology, MEXT, Japan, and co-operated by the Department of Urban Engineering and the Graduate Program in Sustainability Science, Graduate School of Frontier Sciences. See: <http://www.envleader.u-tokyo.ac.jp>

COURSES

Courses offered in English

716-21	Advanced Urban Analysis	Dr. Sadahiro
716-22	Regional Development Policy and Planning	
716-37	Advanced Course in Environmental Engineering Laboratory	Dr. Oguma
716-39	Solid Waste Management	Prof. Yamamoto
716-43	Environmental Systems Analysis	Dr. K.Kurisu
716-91	Environmental Reaction Kinetics	Dr. Katayama
716-94	Fundamentals of Water Pollution Control	Prof. Furumai
716-95	Water Environment Technology	
716-105	Environmental Sanitation in Developing Countries II	Dr. Kitawaki
716-107	Sustainable Urban Regeneration A	Prof. Okata
716-108	Sustainable Urban Regeneration B	Prof. Okata
716-109	Environmental Challenges and Leadership in Asia-B(E)	Dr. An,KyoungJin Dr. Onuki
716-115	Advanced Wastewater Engineering	Dr. An,KyoungJin
716-116	Urban Water System	Prof. Takizawa Dr. Oguma
716-117	Management of Global and Urban Environment	Prof. Hanaki
717-20	Urban Transport Policy	Prof. Harata
717-21	Urban Transport Planning and Analysis	Dr. Ohmori
717-24	Hazardous Waste Management	Dr. Fukushi
717-25	Environmental Risk Management	Dr. Nakajima
717-26	Urban Planning in Developing Countries	Dr. Kidokoro
717-29	Research proposal Technical Writing E	
717-30	Residential Environment	Prof. Asami
717-31	Regional Planning	Dr. Kidokoro Prof. Onishi
717-32	Urban Development Policy and Planning	Dr. Kidokoro Prof. Nishimura Dr. Kubota
717-35	Membrane Technology for Water and Wastewater Treatment	Prof. Yamamoto
717-38	Advanced Course in Environmental Microbiology	Dr. F.Kurisu
717-39	Systems and Tools toward the Recycle-based Society	

FACULTY

Professors in Environmental Engineering

AN, Kyoung Jin, Project Assistant Professor, Ph.D

Advanced Wastewater Treatment, Excess Sludge Minimization Technology,
Membrane Technology, Environmental Education

FUKUSHI¹⁾, Kensuke, Associate Professor, Ph.D.

Hazardous Waste Management, Risk Management, Effect of Global Climate Change, Soil remediation

FURUMAI²⁾, Hiroaki, Professor, D.Eng.

Urban Drainage Management, Water Quality Dynamics, Water and Wastewater Treatment Process Control

HANAKI, Keisuke, Professor, D.Eng.

Analysis of Material Flow in Urban Area, Urban Heat Environment Management, Control of Green House Gas From Urban Area

KATAYAMA, Hiroyuki, Associate Professor, D.Eng.

Water Quality and Public Health, Water Supply, Environmental Microbiology

KURISU²⁾, Futoshi, Associate Professor, D.Eng.

Environmental Microbiology, Bioremediation of Groundwater and Soil, Biological Wastewater Treatment

KURISU-Hasegawa³⁾, Kiyo, Assistant Professor, D.Eng.

Biomarker, Biological treatment, Social Environmental Engineering

*MINO⁴⁾, Takashi, Professor, D.Eng.

Environmental Microbiology, Wastewater Engineering, Environmental Education

NAKAJIMA⁵⁾, Fumiyuki, Associate Professor, D.Eng.

Environmental Toxicology, Water Quality Management, Environmental Chemistry, Aquatic Ecosystems in Urban Environment

OGUMA, Kumiko, Assistant Professor, D.Eng.

Water and Health, Water Treatment Technologies, Urban Water Management

*ONUKE⁴⁾, Motoharu, Project Associate Professor, D.Eng.

Biological Wastewater Treatment, Environmental Microbiology, Environmental Education

*SATO⁴⁾, Hiroyasu, Associate Professor, D.Eng.

Wastewater Treatment, Environmental Analytical Chemistry, Environmental Microbiology

TAKIZAWA, Satoshi, Professor, D.Eng.

Urban Water Systems, Water Environment in Developing Countries

YAMAMOTO⁵⁾, Kazuo, Professor, D.Eng.

Membrane Technology, Waste Management, Environmental Risk Analysis

1) Integrated Research System for Sustainability Science (IR3S)

2) Research Center for Water Environment Technology

3) RCAST (Research Center for Advanced Science and Technology)

4) Division of Environmental Studies, Graduate School of Frontier Sciences

5) Environmental Science Center

Professors with * will not be supervisors for master or doctoral research conducted in this department.

Professors in Urban Planning

*ANDO¹⁾, Shoichi,, Visiting Professor, D.Eng.

Urban Land Use Planning and Administration, Sustainable Building Policy,
International Disaster Management

ASAMI²⁾, Yasushi, Professor, Ph.D.

Habitation System, Spatial Information Analysis, Urban Housing, Human
Behavior and Psychology

HARATA, Noboru, Professor, D.Eng.

Urban Transportation Planning, Transportation Systems Analysis,
Travel Behavior Analysis

HATO, Eiji, Associate Professor, D.Eng.

Behavior in Urban Network Research

ISHIKAWA, Mikiko, Professor, D.Agriculture

Environmental Design, Landscape Architecture
Ecological Planning and Design

KATO³⁾, Takaaki, Associate Professor, D.Eng.

Planning and Engineering for Social Safety System, Collaborative
Planning for Disaster Mitigation

KIDOKORO, Tetsuo, Associate Professor, D.Eng.

International Development and Regional Planning,
Urban Planning in Developing Countries

KOIDE, Osamu, Professor, D.Eng.

Disaster Prevention Strategies, Computer Application for City Planning

KOIZUMI, Hideki, Associate Professor, Ph.D.

Urban Land Use Planning, Collaborative Planning

KUBOTA, Aya, Associate Professor, D.Eng.

Environmental Planning, Social and Spatial Design

*MATSUYUKI, Mihoko, Project Associate Professor, D.Eng.

Urban Planning in Asian Countries

NISHIMURA⁴⁾, Yukio, Professor, D.Eng.

Environmental Conservation Planning, Landscape Planning,
Urban Design Control

OHMORI, Nobuaki, Associate Professor, D.Eng.

Urban Transportation Planning, Activity-Travel Analysis

OKATA, Junichiro, Professor, D.Eng.

Urban Land Use Planning and Control

ONISHI, Takashi, Professor, D.Eng.

National and Regional Development Planning, City Planning in Developing
Countries, Teleworking and Workplace Planning

SADAHIRO, Yukio, Associate Professor, D.Eng.

Geographical Information Systems, Spatial Analysis, Spatial Decision Support

*YAMADA, Tokiyoshi, Project Professor, D.Eng.

Fire and Disaster Mitigation Planning, Fire Dynamics, Fire and Disaster
Management System

1) National Institute for Land and Infrastructure Management

2) Center for Spatial Information Science

3) Institute of Industrial Science

4) RCAST (Research Center for Advanced Science and Technology)

**Professors with * will not be supervisors for master or doctoral research conducted in
this department**

FINANCIAL ASSISTANCE

The Monbukagakusho Scholarship

Annually this program, sponsored by the Japanese Ministry of Education, Culture, Sports, Science and Technology (Monbukagakusho or MEXT), offers seven scholarships to outstanding students. The scholarship provides one round trip ticket to and from Japan, a monthly allowance. A monthly allowance is 157,000 Yen for Master's course and 158,000 Yen for Doctoral course. Monbukagakusho scholars are also exempted from tuition, entrance examination and entrance fees.

Upon completion of their master's program, students offered a Monbukagakusho scholarship will not automatically be awarded an extension for doctoral degree studies. All scholarship recipients must re-apply for the program as applicants for the higher degree.

Eligibility

This scholarship is awarded to citizens of countries with a Japanese embassy. Besides holding sufficient educational qualifications, applicants must be born after April 2, 1976. The applicant must also start their studies in Japan between 1 and 7 October 2011.

How to Apply

To apply for an October 2011 Monbukagakusho Scholarship, the following documents must be submitted to the Department's Foreign Student Office by October 31, 2010

- A completed application form.
- An official certificate or an attested copy of the certificate for your degrees in undergraduate and post-graduate studies.
- An official academic transcript or an attested copy of the transcript for your undergraduate and postgraduate courses.
In case the transcript does not contain Certificate of ranking(GPA), the official letter shall state the class rank or other scale of academic achievement.
The photocopies must contain an original attested stamp from a notary service office or the academic institution you belong(ed).
If you are a student at the time of application submission, please include an official letter or a certificate of expected graduation which must contain the precise date of expected graduation including month and year.
- Two confidential letters of recommendation written on the attached official scholarship form. Each letter should be in a sealed envelope with the signature of the recommender over the flap.
- A copy of official certificate of TOEFL score or any other proof of your English proficiency.
- Check List

In case the above documents are written in the language other than English, certified translations thereof must be attached.

The application and recommendation forms are available at the department or can be downloaded from our home page:

<http://www.due.t.u-tokyo.ac.jp/index.html>

We do not accept any online application. Application documents must be submitted via postal mail by due date.

The application form, once submitted, will not be returned under any conditions.

Selection Procedure

Preliminary selection will be conducted by the Department of Urban Engineering based on the submitted documents. An interview will be held only when it is necessary and possible. Applicants will be notified of the selection results in January. Based on the recommendation made by Department of Urban Engineering, the University of Tokyo, MEXT will make a final selection of scholars. MEXT usually makes its final selection of scholars by the end of April and the result will be relayed to candidates as soon as the department is notified.

The Asian Development Bank Scholarship

The Asian Development Bank (ADB) offers a full scholarship to an outstanding student who apply for Master program in our department. We nominate two scholars per year from applicants who wish to apply both MEXT and ADB scholarships. The most important difference between MEXT scholarship and ADB scholarship is that applicants who have more than two-years working experience are eligible for the ADB scholarship. Anyone who wish to apply for both MEXT and ADB scholarships must fill in the attached forms and check “I wish to be nominated to the ADB scholarship”

The Asian Development Bank

Office of the Cofinancing Operations

Postal address: P.O. Box 789, 0980 Manila, Philippines

E-mail: adbjsp@adb.org

Fax: + 63 2 636 2444; + 63 2 636 2456

Web site: <http://www.adb.org/JSP/default.asp>

All inquiries and application documents must be addressed to:

**FURTHER
INFORMATION**

Foreign Student Office

Department of Urban Engineering, Graduate School of Engineering

The University of Tokyo

7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656, JAPAN

Tel. 81-3-5841-6215

Fax. 81-3-5841-0370

E-mail: fso@ue.t.u-tokyo.ac.jp

The information on this brochure is also listed on our web-site at:

<http://www.due.t.u-tokyo.ac.jp/index.html>

All information provided in this brochure is valid only for October 2011 matriculation.

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