

### 1. University

National

University of Tsukuba

### 2. Graduate school

Graduate School of Life and Environmental Sciences

### 3. URL of University

<http://www.tsukuba.ac.jp/english>

### 4. URL of Graduate school

<http://www.life.tsukuba.ac.jp/en>

### 5. Features of University

The University of Tsukuba celebrates its 30th anniversary as what has come to be called a “new concept university.” Given the opportunities relocating the Tokyo University of Education, an ambitious project started to respond to demands from within and without. As a leader in university restructuring, the University of Tsukuba is constantly seeking to raise the level of education and research, utilize its location in Tsukuba Science City, improve administrative services, and make good use of the vitality of students and faculty to become a world-class institute.

### 6. Features of Graduate school

The Graduate School of Life and Environmental Sciences was established in 2000 as a school focused on five-year consecutive doctoral programs, during the restructuring of the University of Tsukuba to provide a greater emphasis on graduate-level education. It was reorganized in 2005 and again in 2007, offering 10 doctoral programs and a five-year doctoral program, with 4 master's programs: Geoenvironmental Sciences, Earth Evolution Sciences, Structural Biosciences, Functional Biosciences, Bioindustrial Sciences, Appropriate Technology and Science for Sustainable Development, Biosphere Resource Science and Technology, Life Sciences and Bioengineering, Advanced Agricultural Technology and Sciences, and Sustainable Environmental Studies for doctoral programs. Integrative Environmental Sciences for five-year doctoral program. Earth Sciences, Biological Sciences, Agro-bioresource Sciences and Technology, and Environmental Sciences for master's program. Of these programs, Master's Program in Environmental Sciences and Doctoral Program in Sustainable Environmental Studies provide an English course named International collaborative Environmental Program (ICEP).

The Master's Program in Environmental Sciences was founded in 1977, as one of the oldest interdisciplinary postgraduate program in Japan. Students do research under guidance of academic mentors, advising instructors, and thesis directors, while taking introductory and exercises provided in each study field as compulsory subjects. Through these learning processes, students are expected to master a repertory of environmental issues and a basic method of interdisciplinary study. ICEP is organized not separately but as a part of this comprehensive curriculum so that the students can establish multi-lateral as well as interactive relations with the faculty members and other students. JDS students also belong to ICEP together with other foreign as well as Japanese students who take the program.

## 7. Features of the Program

As a part of educational plan, JDS course in environmental policy was set up in Master's Program in Environmental Sciences in 2007. Meeting the demands of other students, including foreign and Japanese students, JDS course is being expanded into new International Collaborative Environmental Program (ICEP) within both Master's Program in Environmental Sciences and Doctoral Program in Sustainable Environmental Studies in 2008 academic year.

ICEP aims at nurturing environmental leaders and provides the students with English class (English lectures, exercises and thesis direction) of environmental themes and practical training by field study and international student forums. After completing this program, they are expected to play significant roles as environmental leaders in international networks.

ICEP accepts those foreign and Japanese regular students who wish to learn advanced and practical environmental topics. In this program, students can obtain the necessary credits for completion in English after intensive and effective completion of the ICEP subjects. Besides the compulsory and elective subjects prepared for the program, ICEP students are also encouraged to attend the lectures provided by the collaborative curriculum of other programs or schools. Those who do not take the program can also attend the English class. The registration and completion time of ICEP are flexibly managed.

Detailed information on the schedule and curriculum is available at:

<http://www.envr.tsukuba.ac.jp/eng/index.html>.

## 8. Curriculum in general

Compulsory subjects:

- Introduction to cycle-oriented environmental studies (2 credits)
- Introduction to environmental symbiotic studies (2 credits)
- Introduction to environmental ethics (2 credits)
- Field and laboratory works on environmental sciences (1 credit)
- Seminar in environmental sciences (2 credits)
- Advanced seminar in environmental sciences (3 credits)
- Special research in environmental sciences or special report of field study (6 credits)

Elective subjects (\* shows new subjects in 2009):

- Utilization and recycling of bio-resources (2 credits)
- Current topics on environmental ethics (2 credits)
- Environmental policy appraisal (2 credits)
- Environmental health perspective (2 credits)
- Economic valuation of the environment (2 credits)
- Forest conservation policy and planning (2 credits)
- Spatial information engineering in environmental science (2 credits)\*
- Environmental remote sensing (1 credit)\*
- Biodiversity (1 credit)\*
- Human genetics (1 credit)\*

## 9. Degree

Master's Degree in Environmental Sciences

Note :

## 10. Credit needed for graduation

30 Credits, 2 Years

## 11. Academic Schedule

ICEP adopts the advisory committee system for the instruction of individual study/research.  
The standard term for completion of the master's program is two years consisting of six trimesters.

ENTRANCE (August)

FIRST YEAR

Second trimester (August–November):

- Academic mentor, research advisors and research theme selected

Third trimester (December–March):

- Taking classes of elective subjects
- Presentation on the research background

SECOND YEAR

First trimester (April–July):

- Taking classes including compulsory subjects
- Presentation on the research topic

Second and third trimester:

- Taking classes of elective subjects
- Interim oral presentation
- Completion of Seminar in Environmental Sciences
- Completion of Advanced Seminar in Environmental Sciences

THIRD YEAR

First trimester:

- Completion of Special Research in Environmental Sciences
- Final Presentation
- Examination of the thesis

GRADUATION (July)

## 12. Facilities

Single and family dormitories are available.

Library is open from 9:00 to 22:00 basically. Library orientation in English is provided twice a year on regular basis.

International Student Center provides various services including Japanese language courses, advisory service, field trips and parties.

### Note

## 13. List of faculty members capable of guiding JDS fellows

Professor:

Hiroo UCHIYAMA, Katuichiro KOBAYASHI, Norio TASE, Norio SUGIURA, Fujio KIMURA, Osamu NUMATA, Tetsuro ISHII, Hiroshi MATUMOTO, Yoshiro HIGANO, Yousei HAYASHI, Masayosi SATO, Teruo HIGASHI, Takehiko FUKUSHIMA, Shinobu SATO, Hiroshi TANAKA, Michiaki SUGITA, Yoshihiro SHIRAIWA, Zenya ZHANG, Yuichi ONDA, Shun SATO, Takeo HAMA, Mamoru WATANABE, Yoshito KUMAGAI, Yasunori KANAHO, Hisayuki TSUCHIYA, Ichiyo MATSUZAKI, Kazuo WATANABE, Makoto WATANABE, Kuniaki MIYAMOTO, Reiji OBASE, Kenjiro OOMURA, Masaki FUJIKAWA, Misa MASUDA, Kunihiko YOSHINO, Tooru NAKAMURA, Shuuichi DOI and Yoshiaki OSAWA

Associate professor:

Yasuhisa ADACHI, Hiroaki UEDA, Maki TSUJIMURA, Nobuhiko NOMURA, Jun ASANUMA, Kenichi UENO, Kenji TAMURA, Kenlo NASAHARA, Mikio KAJIYAMA, Kiyoharu NAKATANI, Kazuhiro KAZAMA, Jun OOHASHI, Shinya NOMOTO, Shinji SATO, Shun WATANABE, Taiichi ITO, Keiko YAMAJI, Takashi KAMIJO and Mitsuru HIROTA

Lecturer:

Masakazu AOKI, Sayaka FUJII and Akinobu MURAKAMI

Assistant professor:

Kenichi MATSUI

※ There will be some changes in the faculty members from October 2010.