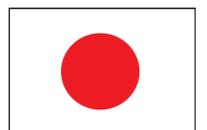


**Tokyo University of Agriculture and Technology  
Ibaraki University  
Tokyo Metropolitan University**

# **AIMS Program 2014**





## Greetings from Dr. Tsutsumi

I am pleased to introduce to you a new collaboration between three Japanese Partner Universities (JPU) and seven ASEAN affiliated universities in the implementation of the AIMS Program at each university.

Through this multicultural collaboration we will strive to foster talented persons with specialized knowledge to contribute to the global community. In addition, we aim to solidify the foundations of exchange study, provide an opportunity for students to gain international experience and broaden their understanding of ASEAN region and, most of all, enhance future friendships that transcend our national borders.

We look forward to meeting you all on our campuses and wish you a pleasant stay in Japan.

**Masaomi TSUTSUMI, Ph.D**

Program Director

Vice President for Public Relations and International Affairs

Tokyo University of Agriculture and Technology

## Tokyo University of Agriculture and Technology (TUAT)

A university with 140 years of history and the first in Japan to focus on education and research in both fields of agriculture and engineering, TUAT offers two courses for AIMS Program:

(1) Advanced Environmental Agriculture and Food Technology Course, which aims to provide educational programs on advanced agricultural science and engineering concerning sustainable food production, natural resources management and environmentally harmonized technology; and

(2) Environment-Friendly Technological Innovation Course, which aims to think and develop new technologies that balance environmental consideration with value creation.

Both courses are designed to foster globally active leadership who understands the current challenges in the ASEAN region and in Japan. Students are expected to lead collaborations through technological innovation and value creation in the field of environment and natural resources.



### ADVANCED ENVIRONMENTAL AGRICULTURE AND FOOD TECHNOLOGY COURSE

Introduction to Food and Agricultural Science
Principles and Potentials of Agribusiness
Food Science
Structures and Environment for Bio-Productions
Environmental Plant Ecology
Food Safety and Zoonosis
Soil Science and Plant Nutrition
Irrigation and Drainage Engineering
Principles of Soil and Water Engineering
International Development in Rural Areas
Sustainable Agriculture - Concept, Theory and Practices
Experiment Course on Food Production and Agro-Environment
Student Research in each Specialized Field

**AREAS:**  
- Agriculture  
- Food Science and Technology



### ENVIRONMENT-FRIENDLY TECHNOLOGICAL INNOVATION COURSE

#### Focus: Chemical Engineering

Separation Process I  
Environmental Engineering and Sustainability  
Chemical Reaction Engineering  
Chemical Engineering Laboratory  
Physical Chemistry for Engineer  
Optimisation in Chemical Processes

**AREA:**  
Engineering

#### Focus: Mechanical Systems Engineering

Control Engineering  
Engineering Component Design  
Mechanics of Machines and Vibration  
Numerical Methods  
Mechanical Systems Experiment II (Laboratory)  
Mechanical Systems Laboratory Project  
Advances in Mechanical Systems

#### Focus: Electrical and Electronic Engineering

Communication Electronics  
Control System  
Microprocessor and Microcontroller  
Numerical Methods  
Power Electronics and Drives  
Electronic Engineering Laboratory

#### Focus: Computer and Information Sciences

Artificial Intelligence  
Signal Analysis and Pattern Recognition  
Logic Design and Computer Architecture  
Research Activity in a Specific Area  
Advanced Computer Mathematics  
Advanced Information Theory

### Ibaraki University (IU)

Located in the Kanto Plain, that faces the Pacific Ocean, Ibaraki University was established in 1949. As a base of academic culture, the university strives to achieve the creation, accumulation, systematization and transmission of "Knowledge". Ibaraki University has diverse educational programs and facilitates high-level research that contribute to world peace, welfare and coexistence with nature. As part of the AIMS Program, Ibaraki University offers Regional Sustainability Science Course which is an inter-disciplinary field intended to foster specialists in sustainability science who will contribute locally and internationally to building a sustainable society. We will offer education and training to develop specialists who possess advanced expertise in specific areas and who comprehensively understand the complex relationship between humans and the environment.



#### REGIONAL SUSTAINABILITY SCIENCE COURSE

- Adaptation to Environmental Change & Disaster Risk
- Regional Environmental Management
- Environmental and Symbiotic Sciences
- Environmental Conservation Agriculture
- Field Experimental works
- Special Lecture on Regional Sustainability I & II
- Seminar on Regional Sustainability Science
- Lab Works in Regional Sustainability Science

AREA:  
Agriculture

### Tokyo Metropolitan University (TMU)

Founded in 1949, TMU is operated by Tokyo Metropolitan Government. TMU offers Regional Development with Tourism Course in the Division of Nature- and Culture-based Tourism, the Faculty of Urban Environmental Sciences. The mission of our division is to provide students with a place to learn and together develop a new tourism science that incorporates physical methods such as geography and ecology; urban engineering methods including transportation planning, urban planning, conservation and utilization of historical heritage; and also information science methods such as identifying and promoting new attractive tourist destinations. Our instructors' expertise in various specialized areas well represents the characteristics of the division and department as a tourism-related track in the Science and Engineering Faculty and graduate school. The division is structured according to two pillars – culture-based tourism, which applies the engineering approach, and nature-based tourism, which applies the scientific approach – linked by the tourism policy and information.



#### REGIONAL DEVELOPMENT WITH TOURISM COURSE

- Transport Planning and Management for Tourism Promotion
- Regional Environmental Studies
- Environmental Ecology I
- Environmental Ecology II
- Town Planning in Tourism
- Tourism Theories and Practice
- Tourism Theory II
- Tourism Informatics
- Regional Environment Science: Practical Field Training
- Exercise on Town Planning in Tourism
- Exercise on Geographic Information Science for Tourism
- Nature- and Culture- based Tourism Science Seminar I

AREA:  
Hospitality  
and Tourism



# Schedule for Inbound Students

## Pre-Arrival

### e-learning

- Explanation of each courses
- Life in Japan
- Japanese Studies

### Buddy system

Matching students with experience abroad and prospective students from AIMS Partner Universities



## Week 1

### Pre-training

- Basics on daily life in Japan
- Japanese practice
- Japanese Topography
- Excursions:  
Visit Ookunitama Shrine and other shrines and temples, Akihabara, Asakusa, etc.

*Moving among TUAT, TMU in a camp study format*

## Week 2

### Common Course: Fundamentals of Agriculture, Engineering and Regional Development

- International Environmental Agriculture
- IT Literacy
- Intro to Sustainable Engineering
- Overview of Regional Sustainability Science
- Tourism in Japan
- Japanese Regional Geography



*Advance to respective courses*

## Week 3 -13

### Specialized Course

- Experiments and practice
- Field Work
- Lab work
- \* Emphasis on Practical Sciences
- \* Select from a wide range of subjects through an interdisciplinary curriculum

*camp study (Ibaraki University)*

## Week 14

### Review:

#### Wrap-up studies of assignments and study tours

- Workshop with Japanese students
- Visit local companies and Tsukuba Research Facilities
- Presentation of Results
- Conclusion Ceremony (Awarding Certificate of Completion and Academic Records)



## Return

### Follow-up

- Deliver a joint newsletter of 3 JPU
- Invite exceptional graduates of this program to lecture at 3 JPUs campus
- Establish an alumni association



## Eligibility

- ◇ Must be fulltime student (minimum Yr.2) at time of application.
- ◇ Must pass screening procedures of home university and recommended by Dean of Faculty.
- ◇ Must be proficient in English communication and TOEFL score of 500 or equivalent.
- ◇ Must be a student of university affiliated to the AIMS network which has an agreement with one of the Japanese Partner Universities (TUAT, IU or TMU). Please refer to the International Office of your home university for more information on the AIMS network and the cooperation agreements with other universities.

## Eligibility and Admission Process

### Admission Process

Selection and screening test will be done by home university. Japanese contact offices will only handle applications after they have been recommended by home university.

## Financials

### Tuition fees

All tuition fees will be waived for students of designated partner universities.

### Airfares, visa, health check-up

Should be arranged by home university. Host university is responsible for airport pick up to ensure safe arrival to respective campus.

### Health Insurance

Students are responsible for their own health insurance; home university will help students find valid international health insurance. Students are also encouraged to enter health insurance recommended by host university at own expense.

### Accommodation

Host university will provide rooms in accordance with university policy for international students, unless other arrangements are made. Note: students are responsible for their own meals.

### Monthly allowance

Home universities will provide monthly stipends in accordance with their local policy. Students are responsible for expenses exceeding their monthly stipends.

### Excursion fees

Students are responsible for additional fees associated with excursions activities or field trips.

### Visa Process

Host university will issue a "Letter of Acceptance" necessary for visa application to enter Japan. International office at home university will assist with this procedure. Eligible students must have a valid passport with expiry date of more than 6 months from the date of entry to Japan.

### Credit Transfer

All units offered at the three Japanese partner universities will be eligible for credit transfer at the applicant's home university. Please confirm with your home university office for details of courses and syllabus.



#### CONTACT OFFICES OF THREE JAPANESE PARTNER UNIVERSITIES

For further inquiry please visit the websites of our respective universities.



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