

# Agriculture and Rural Development

## 【Outline of University Program】

The course develops specialized human resource for the irrigation farming and farming support, collective development at the local level and for the promotion of agri-businesses.

Then, utilizing Japan's rich experience in the paddy-field agriculture and the water resource management, we aim at improving abilities relating to revitalization of agricultural and rural village economies, water resource development and maintenance of irrigation facilities, the sustainable forest resource management, and extensive problem solving concerning the agriculture and forestry sector.

*For further info, please refer page 10 of the Application Guideline.*

**Kyushu University**  
**Graduate School of Bioresource and**  
**Bioenvironmental Sciences**

<b>Sub-Program/ Component</b>	<b>Realization of Sustainable Economic Growth and a Stable Society / Agriculture and Rural Development</b>
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<b>1</b>	<b>University</b>	<b>Kyushu University</b> (National)
	<b>Graduate School</b>	Graduate School of Bioresource and Bioenvironmental Sciences
	<b>URL of University</b>	<a href="http://www.kyushu-u.ac.jp/english/index.php">http://www.kyushu-u.ac.jp/english/index.php</a>
	<b>URL of Graduate School</b>	<a href="http://www.agr.kyushu-u.ac.jp/agr_inter/index.htm">http://www.agr.kyushu-u.ac.jp/agr_inter/index.htm</a>
	<b>Program name</b>	The International Development Research Course
	<b>Degrees</b>	Master of Science
	<b>Credit and years needed for graduation</b>	30 Credits, 2 Years
	<b>Note</b>	Compulsory subjects consist of the thesis (12 credits) and laboratory seminars (6 credits); module subjects offers 11 subjects and are required 10 credits; and 2 credits from a specialized subject offered by the department to which the student belongs.

## 2 . Features of University

The Faculty of Agriculture at Kyushu University (formerly Kyushu Imperial University) was established in February 1919 and has since then been remarkably progressed in the academia while making great strides in the fields of agricultural science and technology research and education. The Graduate School of Bioresource and Bioenvironmental Sciences is aimed at conducting researches and education related to the maintenance of a stable supply of food and materials indispensable to life, the preservation of wildlife and the environment, and the health and welfare of mankind in the world.

Location: 6-10-1 Hakozaki Higashi-ku Fukuoka, 812-8581, JAPAN

The number of teaching staff at the entire University is 2,197 and the administrative 2,622  
Student enrollment: Bachelor 11,651, Master 3,705, Doctor 2,725 and Specialized 462,

## 3 . Features of Graduate School

Kyushu University has recently reformed its overall organization of undergraduate and graduate education programs. As a part of this reorganization, the University has introduced a new Graduate School/Graduate Faculty system - the first attempt of this kind at a university in Japan. By separating the former Graduate School into a Graduate School (education body) and Graduate Faculty (research body to which faculty members belong), the University is seeking to revitalize relationships between the Graduate Faculty and Graduate School, and Graduate Faculty and Undergraduate School. It is also hoped that these changes will promote more dynamic functioning of the Graduate Faculty in relation to the Graduate and Undergraduate Schools.

All members of teaching staff of the agricultural research and education departments now belong to the Faculty of Agriculture, all undergraduate students belong to the School of Agriculture, and all Master's and Doctor's course students belong to the Graduate School of Bioresource and Bioenvironmental Sciences.

In addition, a number of institutes in Kyushu University, but independent from the Faculty of Agriculture, have also merged with the Graduate School of Bioresource and Bioenvironmental Sciences; namely, the Biotron Institute, the Institute of Tropical Agriculture (in part), and the Bio-Architecture Center.

The Graduate School of Bioresource and Bioenvironmental Sciences consists of 4 departments (5 departments in case of Doctor's course), each of which comprises 1 to 4 educational courses

including over 60 laboratories (<http://www.agr.kyushu-u.ac.jp/english/about/faculty/>) covering various fields of agriculture, forestry, fishery, animal science, and agricultural economics. The current enrollment is 1,671 of which 995 are undergraduate and 676 graduate students (as of April, 2010). More than 150 international students, mostly graduate students, have come to study from various countries.

Currently, a total number of The faculty members and staff members is 272, of which the number of full-time academic researchers is over 170 including 58 full-professors, 67 associate professors and 47 assistant professors.

#### **4 . Features of the Program**

The International Development Research Course aims to build on the capacity of the above fields for international students from developed and developing countries whose aim is to contribute to worldwide sustainable development. The Master's program emphasizes the acquirement of synthetic and practical abilities.

The International Development Research Course follows a 2 semester system, starting in October with the autumn term and followed by the spring term, unlike the standard course which is taught in Japanese and commences in April. On completing the courses, students will be awarded a Master of Science (M.Sc) degree. The common features of the Master's and Doctor's programs are as follows:

(1) Thesis work is carried out in English. Since the course is designed for international students, all thesis work should be carried out in English.

(2) Students are expected (but not required) to learn the Japanese Language during the course of their studies. This is for bettering communication during their everyday life.

(3) Theses should be based on research conducted during the course, and on completion, should be submitted to the Division of Agriculture, the Graduate School of Bioresource and Bioenvironmental Sciences at Kyushu University. If the examiners' requirements are satisfied, an appropriate degree is to be awarded to the successful student.

Students will be awarded the Master of Science (M.Sc) on completion of their individual satisfactory theses. The MS Students are also required to complete a four-semester course over a two-year period. The course consists of lectures, practicals, seminars, and tutorials. Each MS student must obtain 30 credits with a minimum passing grade of 60 %.

The Master's Course in the program is a 24-month intensive full-time course consisting of several block modules given in English and research for thesis. The semester begins in October.

#### **5 . Necessary Curriculum to Obtain to the Degrees**

##### **-Module Subjects-**

Fundamentals of Agricultural Sciences  
Biological Resources: Utilization and Conservation  
Soil and Water Environments in Agriculture  
International Rural Development  
Advanced Technology in Agriculture  
Food Science and Food System  
Special Lecture on International Development I  
Special Lecture on International Development II  
Special Lecture on International Development III  
Special Lecture on International Development IV  
Domestic-International Field Training

##### **-Specialized Subjects-**

Agricultural Bioresources Sciences  
Animal & Marine Bioresource Sciences  
Forest and Forest Products Sciences  
Bioproduction Environmental Sciences

Agronomy and Environmental Sciences  
Agricultural and Resource Economics  
Molecular Biosciences  
Systems Biology  
Applied Molecular Microbiology and Biomass Chemistry  
Food Science and Biotechnology

**-Compulsory Subjects-**

Master's Thesis Research I  
Master's Thesis Research II  
Seminar in a Specified Field I  
Seminar in a Specified Field II  
Seminar in a Specified Field III

**6. Academic Schedule**

1<sup>st</sup> year Fall Semester (October – March)  
Entrance ceremony (October)  
1<sup>st</sup> year Spring Semester (April – September)  
2<sup>nd</sup> year Fall Semester (October – March)  
2<sup>nd</sup> year Spring Semester (April – September)  
Defense of master's thesis  
Oral presentation (July)  
Graduation ceremony (September)

**ACTIVITIES**

**Scientific Tours (annual)**

May: Planting rice in terraced paddy fields (Ukiha town, Fukuoka)  
July: Integrated rice and duck farming (Mr. Takao FURUNO's farm, Keisen town, Fukuoka)  
February: Organic liquid fertilizer and egg farm utilizing rice (Chikujo town, Fukuoka)

**Seminars**

Hybrid Rice & Agro-ecosystem  
Japan-Korean joint seminar  
Special seminar by invited lecturers  
and many others

**7 . Facilities**

**-Departments-**

Applied Genetics & Pest Management, Agricultural & Resource Economics, Plant Resources, Bioproduction Environmental Sciences, Bioscience & Biotechnology, Forest & Forest Products Sciences, Animal & Marine Bioresource Sciences, Genetic Resources Technology

**-Attached Institutes-**

University Farm, University Forest, Fishery Research Laboratory, Institute of Biological Control  
Institute of Genetic Resources, Kuju Agricultural Research Center

**-Relating Institutes-**

Biotron Institute, Institute of Tropical Agriculture, Bio-Architecture Center

**-Other Facilities-**

International Student Center  
University Central Library  
The Education & Health Care Division of the Institute of Health Science  
Kyushu University International Students House

**-International Student Center-**

Kyushu University also has an International Student Center. Several international students programs are held throughout the year, allowing you to meet and talk with people from all over the

world. It is also possible to enroll in Japanese language classes at the Center.

**-University Central Library-**

The University Library consists of three general libraries, the largest of which is located right across the road from the International Student Center. The International Salon on the second floor is equipped with 40 personal computers for the use of students and staff. In the International Corner on the third floor, satellite broadcasting in Chinese, Korean and English is also available. Computers and Internet access is possible from 9:00am to 5:00pm on weekdays in the computer room. Computer facilities are also available in the Central Library.

**-The Education & Health Care Division of the Institute of Health Science-**

The Education & Health Care Division of the Institute of Health Science (IHS) offers physical and psychological care service, the counseling and guidance of all students and staff members of Kyushu University. The branch office of the Institute is located in the Hakozaki Campus.

**-Accommodation-**

Students enrolled on the Course are guaranteed a furnished single room with a private bathroom and balcony at the Kyushu University International Students House (KUIISH) for the first 6 months after arrival at Kyushu University. KUIISH is a self-catering hall located 3 km east of the main Hakozaki campus. Access to Hakozaki campus is possible by bus (a 14-minute ride) or bike (about 20 minutes), with cheap bikes being freely available.

## **8 . List of faculty members capable of guiding JDS fellows**

- Atsushi Yoshimura: Professor, Department of Applied Genetic and Pest Management
- Eiichi Kuwano: Professor, Department of Applied Genetic and Pest Management
- Masami Takagi: Professor, Department of Applied Genetic and Pest Management
- Keiji Takasu: Associate Professor, Department of Applied Genetic and Pest Management
- Takashi Yuasa: Associate Professor, Department of Plant Resources
- Ken-ichi Tsuchiya: Professor, Department of Applied Genetic and Pest Management
- Hiroshi Okubo: Professor, Department of Plant Resources
- \*Kazuo Ogata: Professor, Tropical Agricultural Research Center
- Katsumi Imaizumi: Trustee(Vice President)
- Hirofumi Tachibana: Associate Professor, Department of Bioscience and Biotechnology
- Ryuichi A Tatsumi: Associate Professor, Department of Bioscience and Biotechnology
- Toshiro Matsui: Associate Professor, Department of Bioscience and Biotechnology
- Noriyuki Igura: Associate Professor, Department of Bioscience and Biotechnology
- Takahisa Miyamoto: Professor, Department of Bioscience and Biotechnology
- Ken-ichi Honjoh: Associate Professor, Department of Bioscience and Biotechnology
- Takaumi Gotoh: Associate Professor, Dep. of Animal and Marine Bioresource Science
- Yutaka Nakano: Assistant Professor, Dep. of Animal and Marine Bioresource Science
- \* Mari Inoue: Professor, Department of Plant Resource
- Michiyasu Yoshikuni: Professor, Department of Animal and Marine Bioresource Science
- \*Mitsuyasu Yabe: Professor, Department of Agricultural and Resource Economics
- \*Shoichi Ito: Professor, Department of Agricultural and Resource Economics
- Teruaki Nanseki: Professor, Department of Agricultural and Resource Economics
- Kazuhiko Hotta: Professor, Department of Agricultural and Resource Economics
- Susumu Fukuda: Professor, Department of Agricultural and Resource Economics
- Masami Ohtsubo: Professor, Department of Bioproduction Environmental Science
- \*Eiji Inoue: Professor, Department of Bioproduction Environmental Science
- Shigejiro Yoshida: Professor, Department of Forest and Forest Products Sciences
- \*Nobuya Mizoue: Associate Professor, Dep. of Forest and Forest Products Sciences
- Tetsuya Kubota: Associate Professor, Department of Forest and Forest Products Sciences
- Kyoichi Otsuki: Professor, Department of Forest and Forest Products Sciences
- Shoji Ohga: Professor, Department of Forest and Forest Products Sciences
- Toshihisa Ohshima: Professor, Department of Genetic Resources Technology
- \*Katsumi Doi: Associate Professor, Department of Genetic Resources Technology
- \*Mako Nakamura, Associate Professor, International Student Office

\*JDS Program Committee members.

The supervising professors for JDS students are determined in April.

We read his/her report and discuss which laboratories would be suitable for each JDS student and assign a laboratory and supervising professor.

## **9 . Message for Applicants**

The Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University, is proud of its global top level of international education system for agricultural sciences, and the International Development Research Course for the Master students has been in service in the Graduate School since 1991. In this Course, all the classes and theses are conducted in English. The JDS Program for the Master's has been with us in the Course since 2001. In this Program, some scientific tours for the JDS students have been offered from time to time during the two year Master course period for each student. The aims of these tours are to promote a greater understanding of policies, circumstances, and technologies in Japanese agriculture. The people of Cambodia needs specialists in agriculture, forestry, and fisheries such as in planning for policies to promote production in more efficient manners, management for water resources, market development, and improvement in production skills. At our School, we have basically three JDS students from Cambodia every year, and our professors have been working hard to provide them with affluent academic knowledge and pragmatic experiences, so that the JDS students can contribute for further development of Cambodia when they go back home after their graduation.