

**GUIDELINE**  
**SUIJI JOINT DEGREE PROGRAM (SUIJI-JDP)**  
**BOGOR AGRICULTURAL UNIVERSITY (IPB)**

This is system in which master course students from Bogor Agricultural University (hereafter referred to as ‘Program students’), who receive credits from the Joint Education Program at a host university (Kagawa/Ehime/Kochi University), fulfill the requirements for completion at Bogor Agricultural University (IPB), and, who write a master’s thesis based on jointly supervised research at both universities (IPB and one of three host universities), can earn a SUIJI-JDP master’s degree through the SUIJI Consortium.

**1. SUIJI-JDP**

**(1) Schedule**

As a rule, the Program students will study the first one year at Bogor Agricultural University, the next 6 to 9 months at Kagawa or Ehime or Kochi universities as a host university (including the Joint Education Program) and the remaining time will be at Bogor Agricultural University.

**(2) Management of Education and Research**

Program students will receive instruction in education and research under supervisors at both universities.

**(3) Joint Education Program**

A Joint Education Program will be offered to Program students in English. The program is outlined below. Special subject is selected from the list in Appendix.

	Subject	Required/Elective	Credits	Notes
Subject Areas	Tropical agriculture	Required	2	※
	Food security and community service	Required	2	※
	Special seminar	Required	1	
	Field research	Required elective	1	1 to 2 subjects can be selected
	Special experiment	Required elective	1	
	Special subject	Required elective	More than 6	3 subjects & more than 3 credits must be Special subjects
Required number of credits to complete the course			12 or more	

#### **(4) Curriculum and Required Credits for Completion**

Program students will obtain 12 or more credits through the Joint Education Program of the host university and the rest of the credits will be earned at Bogor Agricultural University according to its conditions for completion.

#### **(5) Master's thesis**

Program students will write a master's thesis on research done under the combined supervision of Bogor Agricultural University and the host university. Program students need to decide a supervisor in the host university. Names of supervisors and their research subjects in the three universities in Japan are listed in Appendix.

## **2. Student Recruitment**

### **(1) Eligibility**

In order to apply, students must be 1<sup>st</sup> year master's course students in Bogor Agricultural University.

(2) Number of Program students

The number of Program students should be 5~6.

(3) Application process

The documents listed below should be submitted by the middle of July.

- ① SUIJI-JDP Application Form
- ② A written reason for applying
- ③ A research proposal
- ④ Proof of communication with an expected supervisor in Japan

(4) Selection process

The submitted documents will be evaluated and an interview will be held. The results will be announced by the end of July.

(5) Status of the student and term of study at the host university.

Program students at the host university will have the status of 'Auditing Student'. Program students will stay and study from early September fundamentally.

### **3. Awarding credits and evaluation of the thesis**

(1) Awarding credit for the Joint Education Program

Program students will be evaluated according to the standards of the host university and a certificate of their academic record will be sent to Bogor Agricultural University. Bogor Agricultural University will award credit according to its standards and regulations.

(2) Master's thesis

The Master's thesis will be evaluated by an evaluation committee consisting of supervisors from both Bogor Agricultural University and the host university. The results of the evaluation will be reported to the dean of the graduate school of Bogor Agricultural University.

### **4. Awarding the Degree and Certificate of Completion**

Those Program students who have completed the SUIJI-JDP (including the Joint Education Program), and who have passed the degree evaluation will be awarded a degree by Bogor Agricultural University (Master's degree in Agriculture). In addition, a certificate of completion will be awarded in the name of the SUIJI Consortium to those students who completed the Joint Education Program.

#### **5. Tuition and other fees at the Host University**

Fees for entrance exams, entrance and tuition will not be required at the host university.

#### **6. Other related expenses while at the Host University**

As a rule, travel, housing, health insurance, and other personal expenses are the responsibility of the Program student.

#### **7. Intellectual Property Rights**

If a Program student invents something while studying at the host university, the host university should immediately notify the invention according to its regulations and should quickly determine to whom to attribute the invention.

If the invention is determined to have been a joint venture by a Program student and a supervisor of the host university then it is possible to choose to ① transfer the patent rights to Bogor Agricultural University or ② transfer the patent rights to the host university or ③ let the patent rights remain with the Program student. If, as in ①, the patent rights are to be transferred to Bogor Agricultural University, then the Program student and Bogor Agricultural University must agree to a contract of transfer with Bogor Agricultural University, the host university and Bogor Agricultural University must agree to a contract of transfer and these should be submitted jointly with the patent application. If the patent rights are to be transferred to the host university then the Program student and the host university must sign a contract of transfer and the host university alone will submit the patent application. If the Program student is to hold the patent rights, then a contract of transfer should be signed with the host university and they must submit a joint patent application

Appendix

**Names of supervisors and their research subjects  
and names of “special subject” of Joint education program  
in three Universities in Japan**

**I. Introductory and Developmental Subject**

Special Course Subject	University	Lecturer
Tropical Agriculture	KAGAWA	*
	EHIME	NINOMIYA Ikuo
	KOCHI	YAMAMOTO Yoshinori
		MASUMOTO Toshiro
		ICHIKAWA Masahiro
Food Security and Community Service	KAGAWA	*
	EHIME	KOBAYASHI Osamu
	KOCHI	UKEDA Hiroyuki

**II. Accepted SUIJI-JDP**

University	Lecturer	Field Research
KAGAWA		Ecophysiological analysis and genetic improvement of potential crop yield.
		Micrometeorological control in plant cultivation.
		Ecophysiology and morphology on yield determination of crops.
		Physiological and molecular biological analysis on plant functions and utilization of plant resources.
		Development regulation of vegetable crops and rains of superior strain.
		Utilization and improvement of fruit tree resources.

**II. Accepted SUIJI-JDP (continue)**

University	Lecturer	Field Research
KAGAWA		Utilization and genetic improvement of horticultural plant resources. Genetic improvement and environmental control for flower color expression.
		Genetic resources and genetic improvement of Ornamental plants.
		Reproductive physiology of fruit trees.
		Horticultural utilization of fruit tree resources.
		Flowering physiology and development of production technique in strawberry plants.
		Behavior and ecology of social insects.
		Biological and chemical studies on biophilic element cycling in coastal food web.
		Biological and chemical processes in estuarine and coastal ecosystems.
		Organic chemistry, biosynthesis, biodegradation and utilization of wood components.
		Plant biochemistry on growth and differentiation in plant.
		Organic chemistry of bio-functional molecules.
		Bio-organic chemistry of natural bioactive substances.
		Physical chemistry on biological amphiphiles and colloidal materials.
		Molecular biology on plant and microbe interactions.
	Physiological and molecular biological studies on adventitious embryogenesis in higher plants.	

## II. Accepted SULJI-JDP (continue)

University	Lecturer	Field Research
KAGAWA		Biochemistry and molecular biology on stress responses and tolerances of higher plants.
		Physiology and molecular biology in plant-microbe interaction.
		Biochemistry and molecular biology of basidiomycetes (mushrooms).
		Functional development of microbial and animal cells and its application to production of useful biological substances.
		Intracellular signal transduction in animal cells.
		Studies on environmental adaptation in bacteria.
		Structure-function analysis of hyperthermophilic enzymes and development of their application.
		Structure-function analysis of food proteins and their functional development.
		Development and application of immunological methods for mycotoxins, and toxicology and human exposure of mycotoxins.
		Physical and physico-chemical properties of food.
		Functionality and quality control of flavor components and food materials.
		Physiological and processing functions of food protein from animal products.
		Effects of diets and exercises on metabolism and physiological function in mammals.

## II. Accepted SUIJI-JDP (continue)

University	Lecturer	Field Research
KAGAWA		Encapsulation of functional food compounds by spray drying and molecular encapsulation.
		Studies on processing characteristics and physical properties of food polysaccharides and proteins.
		Research on rare sugar production using microbial.
E H I M E	SUGIMOTO Hideki	Studies on photosynthesis and dry matter production in some crops.
		Cropping system.
	ARAKI Takuya	Environmental effects of photosynthesis and dry matter production of crops.
	YOSHITOMI Hiroyuki	Systematic entomology.
		Species diversity.
	NISHIGUCHI Masamichi	Analysis of gene silencing in plants.
	UENO Hideto	System development of sustainable agriculture with organic materials.
	TOMA Yo	Study of productivity and greenhouse gas emission from agricultural field.
	NISHINA Hiroshige	Environmental control in greenhouse.
	TAKAYAMA Kotaro	Development of plant diagnosis techniques for intelligent greenhouse system.
	SUGAHARA Takuya	Evaluation of function of food.
KAMIYA Koichi	Population genetics of tropical forest trees.	



## II. Accepted SUIJI-JDP (continue)

University	Lecturer	Field Research
E H I M E	TACHIBANA Sanro	Bioremediation of environmental pollution by microorganisms.
		Studies on bioactive compounds from plants.
	SHIMAMURA Tetsuya	Tropical forest ecology.
	SUGIMORI Masatoshi	Evaluation of wood timber.
	KOBAYASHI Noriyuki	Rehabilitation of overage irrigation tank.
	FUJIHARA Masayuki	Numerical modeling of flow and water environment problems.
	OUE Hiroki	Evapotranspiration in rice paddy and upland field.
	KASAMATSU Hiriki	Micrometeorology within and above a vegetated canopy.
		Rural area development.
OSOZAWA Katsuya	Maritime World Study Sago palm and sago development society	
K O C H I	ISHIKAWA Katsumi	The structural control of water/nutrient solution by electrokinetic treatment on horticulture in greenhouses.
	YASUTAKE Daisuke	Environmental friendly agricultural technology on root absorptive functions.
	YAMAMOTO Yoshinori	Ecology and physiology of tropical crops.
	EDASHIGE Keisuke	Studies on the cryopreservation of sperm, oocytes and embryos.
	TEBAYASHI Shin-ichi	Study on the resistance of rice plant induced by a pest attack.
	SUZUKI Yasushi	Forest engineering (forest machinery, forest road, logging system).

### III. Offer Courses Joint Degree Program SUIJI

University	Lecturer	Subject Course
KAGAWA	KIRITANI	Crop Ecology
	TOYOTA Masanori	Crop Ecophysiology
	MOROZUMI	Crop Production Management
	*	Plant Production Physiology
	YAMAUTI Koh-en MATSUMOTO	Animal Science
	HASHIGUTI	Animal Production Management
	SUZUKI	Agricultural Meteorology
	MATSUMURA	Agricultural Disaster Control
	MINOWA	Agricultural Buildings
	KAMEYAMA Hiroshi	Farm Management
	MUTO	Agricultural Economics
	KATAOKA Ikuo	Fruit Tree Resources
	BEPPU Kenji	Reproductive Physiology of Fruit Trees
	OKUDA Nobuyuki	Advanced Vegetable Crop Science
	FUKAI Seiichi	Floriculture
	YANAGI Tomohro	Science and Technology in Protected Horticulture
	TANAKA Michio	Seed and Nursery Production
TAKAMURA Takejiro	Breeding of Horticultural Plants	

### III. Offer Courses Joint Degree Program SUIJI (continue)

University	Lecturer	Subject Course
KAGAWA	KAWADA Kazuhide	Postharvest Horticultural Physiology
	KOSUGI Yusuke	Postharvest Horticultural Biochemistry
	MOCHIOKA Ryosuke	Fruits Ecophysiology
	NARUMI	Molecular Breeding of Floricultural Plants
	ICHIMI Kazuhiko	Coastal Marine Science
	ITO	Behavior and Ecology of Social Insects
	YASUI	Evolutionary Ecology
	KOBAYASHI	Plant Ecology
	TADA Kuninao · YAMAGUCHI	Biological and Chemical Oceanography
	YAMADA Yoshihiro	Biogeochemistry
	KATAYAMA Takeshi	Advanced Organic Chemistry of Bio-resources
	SUZUKI Toshisada	Biomass Chemistry
	SATO	Bioactive Natural Products Chemistry
	KATO Hisashi	Plant Physiology and Chemistry
	HURUMOTO	Natural Bioorganic Chemistry
	KAWANAMI Yasuhiro · YANAGIDA	Functional Molecular Chemistry
FUKADA Kazuhiro	Advanced Biophysical Chemistry	

### III. Offer Courses Joint Degree Program SUIJI (continue)

University	Lecturer	Subject Course
KAGAWA	FUJITA Masayuki	Plant Stress Responses
	ICHIMURA	Plant Stress Signaling
	MIYAKO	Plant Cell Culture and Developmental Regulation
	TADA	Plant Cell Immunology
	AKIMITSU	Molecular Plant Pathology
	NOMURA Mika	Molecular Plant Nutrition
	SUGITA· IKEDA	Molecular Plant Genetics and Breeding
	GOMI	Plant Defense Responses
	OKAZAKI	Animal Cell Technology
	KAMESHITA	Animal Biochemistry
	KIMURA	Physiology of Microorganisms
	SUEYOSHI	Molecular and Cellular Biology
	TANAKA	Applied Microbiology
	TABUCHI	Applied Molecular Cell Biology
	WATANABE Akira	Microbial Genetics
	MATSUO	Advanced Physiology of Food Functions
	TAMURA Hirotohi	Functional Food Chemistry
OGAWA Masahiro	Food Protein Chemistry	

### III. Offer Courses Joint Degree Program SUIJI (continue)

University	Lecturer	Subject Course
KAGAWA	YOSHII Hidefumi	Food Engineering
	GOHTANI Shoichi	Food Physical Chemistry
	IKEDA Shinya	Advanced Food Materials Physics
	KAWAMURA Osamu	Advanced Food Hygiene
	*	Glycobiology
	ASADA Yasuhiko	Applied Enzymology I
	SAKURABA Haruhiko	Applied Enzymology II
	TAKATA Goro	Applied Enzymology III
	MORIMOTO Kenji	Glycochemistry
	HAYAKAWA Shigeru	Development of Sugar Fortified Food Products
	TOKUDA	Rare Sugar for Pharmaceuticals and Medicines
	TAJIMA Shigeyuki	Sugar Metabolism and Chemistry in Plant
	*	Structural Biochemistry
	TAKADA · MOROMOTO · YOSIHARA	Rare Sugar Production Technology
	HOSOKAWA	Technology for Rare Sugar Functionalities
EHIME	ARAKI Takuya	Effects of low-input application of photosynthesis and dry matter production of rice plants
	YOSHITOMI Hiroyuki	Taxonomy and systematic

### III. Offer Courses Joint Degree Program SUIJI (continue)

University	Lecturer	Subject Course
EHIME	NISHIGUCHI Masamichi	Advanced molecular agrobiolgy
	UENO Hideto· TOMA Yo	Nutrient cycling in agricultural field
	HATO Kenji	Information network
	NISHINA Hiroshige	Greenhouse environmental engineering
	TAKAYAMA Kotaro	Plant measurement techniques and diagnostics
	SUGAHARA Takuya	Cellular regulation technology
	TACHIBANA Sanro	Wood chemistry
	KAMIYA Koichi	Tropical forest genetics
	SHIMAMURA Tetsuya	Forest ecology and rehabilitation
	HAYASHI Kazuo	Sustainable utilization of forest products
	KOBAYASHI Noriyuki	Fundamentals of soil mechanics
	FUJIHARA Masayuki	Hydraulic engineering
	OUE Hiroki	Biospheric aspects of micrometeorological and hydrological processes
KASAMATSU Hiriki	Rural community	
KOCHI	ISHIKAWA Katsumi	Advanced agro-environmental chemistry system studies
	YASUTAKE Daisuke	Transport phenomena in plant-environment systems

**III. Offer Courses Joint Degree Program SUIJI (continue)**

<b>University</b>	<b>Lecturer</b>	<b>Subject Course</b>
K O C H I	YAMAMOTO Yoshinori	Special seminar in tropical crop science
	EDASHIGE Keisuke	Animal reproductive bioengineering seminar
	SUZUKI Yasushi	Advanced forest civil engineering
	UKEDA Hiroyuki	Food chemistry seminar
	OHTANI Kazuhiro	Theory of natural physiologically active substances
	SASAHARA Katsuo	Mountain preservation
	MASUMOTO Toshiro	Advanced fish nutrition