

IPADS

International
Program in
Agricultural
Development
Studies

INTERNATIONAL PROGRAM IN

AGRICULTURAL DEVELOPMENT STUDIES (IPADS)

GRADUATE SCHOOL OF AGRICULTURAL AND LIFE SCIENCES

THE UNIVERSITY OF TOKYO

GLOBAL SCOPE

ISSUE ORIENTED

TRANSDISCIPLINARITY

ipads.a.u-tokyo.ac.jp



THE UNIVERSITY OF TOKYO

Founded in 1877, the University of Tokyo, one of the world's leading universities in education and research, has produced some of the most outstanding scholars, scientists, and social and political leaders of Japan, including 11 Nobel Laureates, 16 prime ministers of Japan, and one Fields Medal winner over the course of its long and distinguished history.

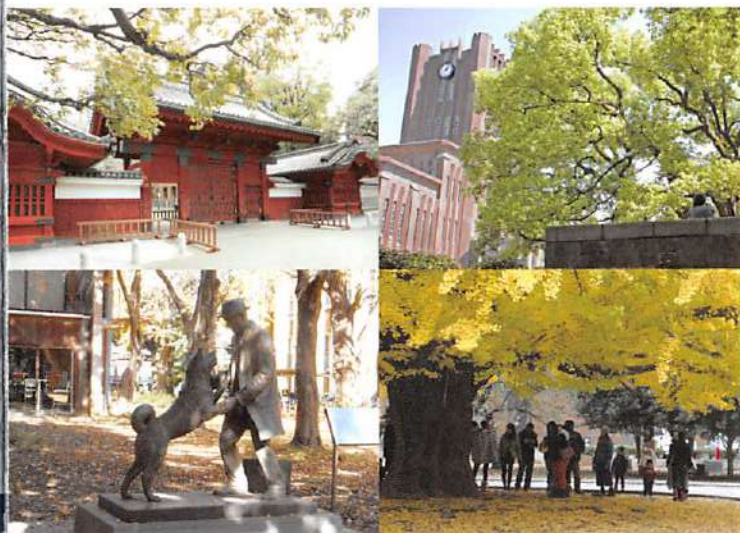
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GRADUATE SCHOOL OF AGRICULTURAL AND LIFE SCIENCES / FACULTY OF AGRICULTURE, THE UNIVERSITY OF TOKYO

At the Graduate School of Agricultural and Life Sciences (GSALS), we are committed to serving the global society through our education and research programs dedicated to sustainable provision of food and ecosystem services. As one of Asia's leading agricultural schools, we take pride in the quality of our experienced and internationally recognized staff, who engage in innovative teaching as well as groundbreaking research.

<http://www.a.u-tokyo.ac.jp/english/index.html>





PROGRAM STRUCTURE

Inaugurated in the academic year 2010/2011, **International Program in Agricultural Development Studies (IPADS)** is an English-language MSc and PhD Program at the Graduate School of Agricultural and Life Sciences, the University of Tokyo. Issue-oriented rather than methodology-oriented, this exciting international program offers its candidates the opportunity to develop the requisite expertise across discipline and country boundaries to tackle agricultural and environmental problems in developing countries around the world. Graduates will be well-equipped to make a difference in the modern, globalized industry of agriculture.

The academic year at IPADS begins in September each year. Typically, students in MSc complete the coursework component of the program in their first six months whilst designing and preparing for their original research, and then engage in full-time research. Throughout the program, students are actively involved in the School's research community, participating in weekly seminars, thematic workshops and academic conferences. Credit points for the research component of the program (8 credits for International Master's Research and 4 credits for IPADS Research Seminars) are awarded for these activities, which are designed to build a foundation to write a high-quality Master's thesis. With the program coordinator's prior approval, students can enroll in other subjects offered at the University in lieu of one or more of the above subjects.

COURSEWORK COMPONENT

IPADS also offers three-year, research-only PhD program towards the University of Tokyo's PhD (Agricultural Sciences) degree.



International Program in Agricultural Development Studies (IPADS)

For further details, visit our website:

<http://ipads.a.u-tokyo.ac.jp/>

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COURSES

IPADS MSc Program is a two-year coursework and research program towards the University of Tokyo's MSc (Agricultural Sciences) degree. To graduate, students must satisfactorily gain 30 credit points from the subject list below (courses in 2016) and pass the defense of their Master's thesis. Subjects with * are compulsory. Subjects with + are semi-compulsory (i.e. at least one of them has to be completed before submission of the Master's thesis).

The lectures are mainly taught by the professors at the Department of Global Agricultural Sciences of the University of Tokyo. The professors have excellent academic carrier and wide experiences in international researches. Students can also use the university's link with other universities and institutes both national and international.

■ 12 COURSES EXAMPLES

COURSE NAME	CREDIT
IPADS Development Studies(*)	2
IPADS Case Studies(*)	2
IPADS Food Resources	2
IPADS Crop Modeling	2
IPADS Crop Management (+)	2
IPADS Plant Improvement	2
IPADS Soil Fertility Management	2
International Forest Development	1
International Forest Certification	2
Forest Insect Ecology	2
IPADS Economics	2
IPADS Statistics	2

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PERSPECTIVES

A diverse range of career opportunities is available to graduates. Upon successful completion of IPADS, students can expect to pursue a career in :

- academia
- developmental consultancy
- government agencies
- commodity trade
- international organization
- rural finance
- international NGOs
- farming industry
- environmental consultancy

Graduates with excellent academic and research records may also have an opportunity to enter the School's doctoral program.

ADMISSION REQUIREMENTS

To be admitted into IPADS, applicants must:

- hold a Bachelor's degree or equivalent from a recognized institution (to enter MSc)
- hold a Master's degree or equivalent from a recognized institution (to enter PhD)
- have a very high level of English proficiency, as demonstrated by their TOEFL or IELTS score. While IPADS does not publish the official cut-off scores for English proficiency tests, we especially welcome applicants who meet the following criteria: TOEFL - 98 and above, IELTS - 7.0 and above. Exemptions from submitting the English test scores are given to applicants from a very limited number of countries only. The IPADS Office reserves the right to request submission of a proof of English proficiency from all applicants, regardless of their nationalities and educational background.
- possess an excellent academic record and sound plan for their Master's/PhD research
- have secured enough fund to support themselves and families for the duration of their stay (e.g. scholarships)
- be in good health

IPADS is open to applicants from all countries and regions. This includes Japanese citizens and permanent residents, although they might be excluded from selection for some scholarships due to their eligibility rules.

RESEARCH COMPONENT

The research component of the MSc program and the entire PhD program are conducted under the supervision of one or more of the School's faculty. Students have opportunities to work with suitable members of staff to satisfy their own requirements and research interest.

Research topics currently being undertaken at the School include, but are not limited to:

PLANT SCIENCE

- Impacts of atmospheric changes on agriculture and ecosystems in Asia
- Plant production in effective agro-ecosystem management
- Crop management assisted with modeling in Africa and South America
- Water-saving rice production systems

PLANT MATERIAL SCIENCE

- Technology development to use under-utilized plant resources
- Study on function of plant components in ecosystems
- Effective utilization of lignin and other chemicals from wood materials

PLANT BIOTECHNOLOGY

- Cellular and molecular analysis of iron acquisition mechanism in plants
- Genetic studies on acquisition and efficient use of phosphorus
- Analysis of stress response and molecular genetic breeding of stress tolerant plant

ECONOMICS

- Effect of global warming on world agriculture and forestry
- Food supply and demand in the world interpreted by system model
- Economic development and environmental problems in the developing countries

ANIMAL SCIENCE

- Epidemiology of zoonotic infectious diseases
- Virus-based recombinant vaccines for animal diseases
- Studies on the morphological diversity of vertebrates

FOOD SCIENCE

- Food engineering including the optimization of processing
- Value chain analysis in developing countries
- Optimal distribution model for fresh produce in rural Java, Indonesia

AGROINFORMATICS

- Constructing monitoring system for agricultural and soil information using IT technologies
- Application of image processing for high-throughput phenotyping

FORESTRY

- Forest monitoring using satellite remote sensing and GIS
- Development of forest certification system for the rural communities
- Forest insect population ecology

FISHERIES

- Improvement of aquaculture systems for sustainable utilization of coastal environments in Southeast Asia
- Analysis of marine biodiversity and economic development
- Economics and policy for conserving marine biological resources

Applicants for the PhD program must contact their potential supervisor(s) directly and prepare a research proposal with him/her/them prior to application. The IPADS Office does not offer assistance for potential applicants to select their PhD supervisors.

For the MSc program, prospective students shortlisted for admission will receive an invitation to contact their potential supervisors to discuss research opportunities. Until then, all MSc application-related inquiries should be directed to the IPADS Office.

