

## Overview of the Doctoral Program

### Basic Philosophy

The basic philosophy behind the GRIPS doctoral program is the essential nature of nurturing the following types of human resources:

1. Highly qualified researchers in the field of policy studies
2. Public administrators with professional expertise and skills in policy analysis based on an academic framework

### Educational Goals

The GRIPS doctoral program will, over its standard training period of three years, offer students educational instruction with the aim of fostering in them the following abilities:

1. Advanced policy study capabilities based on academic methods that meet international standards
2. Instruction in the various disciplines essential for pursuing a career in policy studies
3. The ability to write an academic dissertation.

A dissertation, submitted for evaluation under the GRIPS doctoral program, must meet the following three conditions in order for the student to be awarded a Ph.D./doctoral degree.

1. It must have policy-relevancy or policy implications.

2. It must take into account previous trends and studies (both Japanese and international) in the relevant academic field, and must present something original of its own.

3. It must be built on either an outstanding analysis of a specific policy, or a retrospective historical research/case-study taken up from a fresh perspective, showing great analytical acumen.

To be considered to have met the above three conditions, the dissertation must fulfill at least one of the following requirements:

1. Part or all of the results of the study must have been published or accepted for publication in an academic journal, based on a system of peer review.

2. The results of the study must either have already been published commercially, or be scheduled for commercial publication (includes subsidy publishing).

3. The results of the study must be recognized to be of a standard comparable to that of the requirement 1. or 2. above.

### Established Programs

There are five programs under the GRIPS doctoral program: GRIPS Global Governance Program (G-cube); Policy Analysis; Science, Technology and Innovation Policy; Disaster Management; and Policy Professionals. For details, please refer to Table 1.

## Requirements for Doctoral Students

### Course Guidance

Student guidance is conducted to facilitate effective student learning through courses that enable the conduct of the research toward and the writing of a dissertation, with consideration of the student's individual expertise and skills. Classes offered in the doctoral program are conducted in the form of lectures, tutorials, and seminars. In addition, learning opportunities are provided through individual paper writing; presentations at international conferences; joint work; and presentations in tutorials.

For students pursuing a career as policy researchers, advising is aimed at their publication of academic works and presentation of policy analysis findings, based on their academic disciplines.

For students pursuing careers as public administrators, advising is aimed at their ability to write (for publication) insightful case studies and retrospective studies focused on policy issues.

### Research Guidance System

Research guidance under the GRIPS doctoral program will be provided by an Advisory Committee made up of several advisors, and will be based on each student's research capabilities and competence in the research topic area. The Advisory Committee, consisting of the main advisor and up to three sub-advisors, will guide the student in the selection of courses, based on factors such as the student's research plan and the state of the student's mastery of the various required subjects. The courses selected shall encompass several disciplines: the main field and subfields, and also fields that should be mastered by the student for the pursuit of his/her policy research.

### Completion Requirements

To complete the GRIPS doctoral program, a candidate must have passed the QE and the Ph.D./doctoral dissertation defense. The following are brief descriptions of the QE and Ph.D./doctoral dissertation defense.

1. In order to write a doctoral dissertation, it is required, as a rule, that students pass the QE, which is generally conducted around the end of the first academic year of the doctoral program. To be permitted to take the QE, students must obtain the required credits. For information on course requirements, see Table 2, "Program Requirements," as well as the curriculum of each program. Note that each program has some course requirements in addition to QE related requirements.

2. The QE consists of both written and oral examinations.

Note: for the Policy Analysis Program, a Basic QE and a Field QE are conducted. See Table 3 and 4.

The written examinations will be conducted for one subject given by the main advisor, and two other subjects (one in the case of the Policy Professionals Program) given by the sub-advisors or other instructors approved by the main advisor and sub-advisors. The format (in-class, take-home, open book, or closed book) is decided by the main advisor. The student must attain a score of at least 60% in every one of the subjects in order to obtain an overall pass. The oral examination will involve answering questions based on the student's research plan or on his/her answers to questions in the written examination. Whether the student passes or fails will be determined through discussion among all members of the Advisory Committee. Students who pass both the written and oral examinations are considered to have passed the QE. Students who are unable to pass either the written or oral examination the first time are allowed to take the second QE six months or longer after the first examination.

### Doctoral Dissertation and Defense Review Structure and Evaluation Criteria

The final examination of doctoral students shall be evaluated by the Doctoral Dissertation Review Committee, taking into consideration student

## 5. Degree Programs for Doctoral Students

performance in the question-and answer session at the defense. The evaluation system, method and evaluation criteria shall be as follows.

### Review Structure

The examination of the doctoral dissertation shall be conducted by the Doctoral Dissertation Review Committee formulated for each student. The Doctoral Dissertation Review Committee shall comprise four or five members (in principle, all members of the Advisory Committee, one member from an outside institution (mandatory), and the (acting) chairperson of the Doctoral Programs Committee).

### Examination Method

All doctoral students must submit their final dissertations and then present their research results at a doctoral dissertation defense in order to demonstrate the validity, relevance, and academic contributions of their research.

A defense consists of a candidate's presentation and a question-and-answer session, taking 90 minutes in total. Candidate's presentation time, including time to handle clarifying questions, cannot exceed 45 minutes. When reviewing student dissertations, student performance in the question-and-answer session is taken into consideration. Each member of the Doctoral Dissertation Review Committee assigns score on a 5-point scale (see Table 1 for details) in accordance with the evaluation criteria. The committee's decision is made based on the median of all reviewers' scores. In the case of a committee score of 5, the dissertation is accepted as satisfactory; for a score 1, the dissertation is designated a failure. The reviewing-voting-revising process continues until the median reaches 5 or 1.

### Evaluation Criteria

Doctoral dissertations in GRIPS doctoral programs must satisfy the following three requirements:

1. It must have policy-relevancy or policy implications.
- 2 They must take into account previous trends and studies (both Japanese and international) in the relevant academic field, and must present something original of its own.
3. It must be built on either an outstanding analysis of a specific policy, or a retrospective historical research/case-study taken up from a fresh perspective,

showing great analytical acumen.

To meet the above standards, doctoral dissertations must satisfy one of the following conditions:

1. Some of the research results must have been published or accepted for publication in a peer-reviewed academic journal;
2. The research results must have been, or must be scheduled to be, commercially published (including subsidized publications); or
3. The dissertation must meet a standard equivalent to that of (a) or (b) above.

Table 1: 5-point scale and reviewing-voting-revising process

5-point scale	Revision procedure
5 = will meet the evaluation criteria with minor revisions	The review committee members ask the main advisor (referee) to check the revisions.
4 = revisions are required to meet the evaluation criteria	The committee members are requested to submit their new comments, together with a new score, within one week of receiving the revised version of the dissertation.
3 = major revisions are required to meet the evaluation criteria	The committee members are requested to submit their new comments, together with a new score, within 30 days of receiving the revised version of the dissertation.
2 = major revisions are required to meet the evaluation criteria and a presentation is required	The committee members are requested to attend another presentation at least 30 days after the revised version of the dissertation is submitted by the candidate. The committee follows the same procedure as it did at the first and subsequent defenses.
1 = The committee has determined that the applicant is unable to make acceptable	

Other information including procedures for submission of papers, presentation of papers, and other examinations are described in "Overview of Research, Advising and Defense etc for Doctoral Students at GRIPS", which is distributed at the Guidance.

Table 1: List of Programs Offered Under the Doctoral Program

Period	Program	Accepted students	Field of research	Degrees offered	Director in charge
5 years (M.A.+ Ph.D.)	<b><u>Policy Analysis</u></b> Designed for students to use economics methodology to research and analyze real-world policy issues, in a five year period (three years for well qualified candidates)	Japanese and foreign students	Economics	Ph.D. in Public Economics Ph.D. in Development Economics Ph.D. in International Economics Master of Arts in Public Economics Master of Arts in Development Economics Master of Arts in International Economics	HSU Minchung
3 years (Ph.D., doctoral degree)	<b><u>GRIPS Global Governance (G-cube)</u></b> Designed to produce a new type of leader who can resolve problems faced by the world today in the government, business, and international arenas by equipping students with a broad historical and cultural perspective, strong analytical ability, and effective communication skills.	Japanese and foreign students	Political Science, Economics, Area Studies, History, Security and International Studies	Ph.D. in Advanced Policy Studies Ph.D. in International Relations Ph.D. in International Development Studies	Takahashi
	<b><u>Disaster Management</u></b> Designed for professionals who can educate researchers and take leadership in the planning and implementation of national/international strategies and policies in the field of water-related risk management.	Japanese and foreign students	Disaster Management	Ph.D. in Disaster Management	Hibino
	<b><u>Science, Technology and Innovation Policy</u></b> Designed to give government officials and practitioners the skills needed to apply a scientific approach to the design, implementation and evaluation of policies and strategies related to science, technology and innovation; and to train other professionals to become experts in the theory and practice of policymaking.	Japanese and foreign students	Science, Technology and Innovation Policy	Doctor of Policy Studies Ph.D. in Public Policy	Hayashi
	<b><u>Policy Professionals</u></b> Designed to enable, through the case study approach, government officials, journalists, and other practitioners to develop the skills required for policy analysis.	Japanese students	Case studies	Doctor of Policy Studies Ph.D. in Government	Iio

**Table 2: Program Requirements**

Program	Field of research	First year (prior to taking QE)	Second year onward
Policy Analysis	Economics	Six core courses (12 credits) must be completed in order to take the Basic QE. The Basic QE has to be passed within the first year of enrollment. The 6 credits of the 'Recommended Courses' must be completed before taking the Field QE.	Study for the Field QE, followed by work on the doctoral dissertation while taking courses based on the curriculum where necessary.
GRIPS Global Governance Program (G-cube)	Political Science, Economics, Area Studies, History, Security and International Studies	(Three year course) 11 credits must be completed to take the QE.	Work on the doctoral dissertation while taking courses such as Tutorial and G-cube Workshop.
Disaster Management	Disaster Management	Required: eight credits or more in courses pertaining to water related disaster management studies Required: 10 credits or more in courses based on the curriculum of the Science, Technology and Innovation Policy Program, as well as an outline of the dissertation.	Work on the doctoral dissertation while taking courses on disaster management where necessary.
Science, Technology and Innovation Policy	Science, Technology and Innovation Policy	If students (a) have not completed a master's degree program related to science, technology and innovation policy, and (b) do not have sufficient knowledge of this field, this program strongly recommend that they acquire approximately 16 credits before taking the QE.	Work on the doctoral dissertation while taking courses based on the curriculum for the Science, Technology and Innovation Policy Program where necessary.
Policy Professionals	Case Studies	Required: 10 credits or more in courses based on the curriculum of the Policy Professionals Program, and an outline of the dissertation.	Work on the doctoral dissertation while taking courses based on the curriculum for the Policy Professionals Program where necessary.

**Table 4: Model Schedule of Qualifying Examination (QE)**

	Policy Analysis		G-cube		Science, Technology and Innovation Policy	Disaster Management	Policy Professionals
	3-year	5-year	3-year	5-year	3-year	3-year	3-year
1 <sup>st</sup> year	-----Coursework-----						
	Basic QE	Basic QE	Written QE	Written QE			Written QE
2 <sup>nd</sup> year			Oral QE	Oral QE	Written QE	Written QE	Oral QE
	Field QE				Oral QE	Oral QE	
3 <sup>rd</sup> year							
	Defense	Field QE	Defense		Defense	Defense	Defense
4 <sup>th</sup> year	/		/		/	/	/
5 <sup>th</sup> year							
		Defense		Defense			

**Table 5: Model Schedule of Defense and Graduation**

	Completion Period			
	March	June	September	December
Selection of Doctoral Dissertation Review Committee members (→ to be approved by Doctoral Programs Committee)	Third or fourth Wednesday of October	Third or fourth Wednesday of January	Third or Fourth Wednesday of April	Third or Fourth Wednesday of July
Submission of dissertation (→ announcement of the defense)	November	February	May	August
Dissertation defense	December	March	June	September
Submission of the final version of the dissertation	2 weeks before the Doctoral Programs Committee meeting designated below			
Doctoral Programs Committee approval of the results of dissertation review	First Wednesday of March	Third or fourth Wednesday of June	First or third Wednesday of September	Second or third Wednesday of December
Academic Council approval of the results of dissertation review and completion of the doctoral program	Same as above	Same as above	Same as above	Same as above

Note:

\*The schedule above applies to doctoral candidates who obtain a median score 4 or higher. If the score is less than 3, completion time required is longer.

\*Neither the Doctoral Programs Committee nor the Academic Council is held in August.

\*The above schedule may change from one year to the next.,

## Doctoral Programs

### Five-year Ph.D. Programs

#### Policy Analysis Program

This is a five-year program designed to equip students to conduct research and analysis of real-world policy issues, utilizing economics methodologies.

1. The Policy Analysis Program accepts students whose main interest is economic analysis of public policy. The program offers solid training in advanced-level economics and econometrics.
2. Curriculum features:
  - (a) At the beginning of the program, the students study economics and econometrics. They are expected to develop a research plan in coordination with a faculty member.
  - (b) In the program, all students must take advanced level courses in microeconomics, macroeconomics, and econometrics.
  - (c) Masters and doctoral courses are integrated into one program. Five years is the usual time needed for students without a Master degree in economics to obtain a Ph.D. degree.
  - (d) A degree in economics or a related field is required. Students who already hold a strong master's degree in economics may graduate as soon as three years after enrolling in the program.
3. Other features of the program
  - (a) All courses (including lectures, seminars, workshops and tutorials) are taught in English. No knowledge of Japanese language is necessary.
  - (b) Normally students enter the program in October.
  - (c) During the first year, the students focus on advanced courses in economics and econometrics.
  - (d) All students must pass qualifying exams in basic economics and econometrics (Basic QE) and in their specialized field (Field QE) as a requirement for Ph.D. candidacy.
  - (e) Students learn how to communicate about their work through attendance in the Graduate Workshop and the making of presentations in the Graduate Seminar and Policy Analysis Workshop.
  - (f) Our faculty includes both professionals in economic research and experts with extensive

experience in policy formulation within government and the international arena.

4. Recommended elective courses are provided in a separate page of this bulletin.
5. GRIPS masters students who are considering applying for the Policy Analysis Program are encouraged to enroll in advanced courses and consult faculty members about possible research topics.

### Three-year Ph.D./Doctoral Programs

#### GRIPS Global Governance Program (G-cube)

This program aims to produce leaders of leaders for government, business, and international arenas.

The world faces new and serious problems, including financial crises, terrorism, energy challenges, and environmental issues. A new type of leader is needed who can address these problems and forge a path to a new age.

This program will equip students with: (1) a broad historical perspective, which will afford them a deep and realistic understanding of the nature of policy issues and will enable them to predict the overall impact of those issues; (2) the strong analytical ability needed to develop insightful and effective policy; and (3) effective communication skills essential for conveying ideas and opinions across languages, cultures, religions, and nationalities.

The program places particular emphasis on the students' ability to express their opinions, gained through participation in small active-learning style classes. Students will register for one of the following concentrations, Global Governance Studies (GGS), International Development Studies (IDS), and Security and International Studies (SIS), and take required courses, highly recommended elective courses, and other elective courses specified at each concentration. After completing one year of coursework, students who have earned the required number of credits and have passed the Qualifying Examination (QE) will begin writing a Ph.D. dissertation, to be completed by the end of the third year.

All courses (including lectures, seminars, and tutorials) are conducted in English.

#### Disaster Management Program

This program is designed to cultivate professionals who can educate researchers and take leadership in the planning and implementation of national and international strategy and water-related risk management policy.

Water-related disasters are intensifying in frequency and magnitude due to such worldwide phenomena as urbanization, industrialization, and climate change. Those disasters cause devastating loss of human life and livelihood, and seriously impede economic development.

It is increasingly evident that capacity development and human empowerment are the necessary foundation for ensuring societal resilience against disasters and sustainable development capabilities. To enhance that foundation, it is urgent that countries increase their capacity to provide risk management training for

researchers, educators and strategy/policy specialists.

In the interest of supporting countries in such capacity building, the National Graduate Institute for Policy Studies (GRIPS) and the International Centre for Water Hazard and Risk Management (ICHARM) of the Public Works Research Institute (PWRI) jointly launched a Ph.D. program in October 2010. The broad aim of the program is to nurture professionals who can train researchers and take leadership in the planning and implementation of national and international strategy and water-related risk management policy.

At the end of the second year of the doctoral program, each student is expected to submit a dissertation proposal and pass a Qualifying Examination (QE). In order to be eligible for the doctoral dissertation QE, the student must earn a minimum of 8 credits for courses those offered by GRIPS and ICHARM, and also the University of Tokyo. In addition, the student's supervising committee may advise the student to take up to 4 credits from Category III. After passing the QE, the student can begin dissertation work, and must complete it by the end of the third year.

After starting work on her/his dissertation, the student is required to attend a Preliminary Presentation to report on the research that she/he is planning or already pursuing. At the end of the third year, to complete the doctoral course work, each student is required to present the results of his/her research in a Ph.D./doctoral dissertation defense, and demonstrate the validity, relevance, and academic contribution of the findings.

At the present time PWRI is calling for applications for ICHARM Research Assistantship positions. Students employed in these positions will work at ICHARM as ICHARM Research Assistants. This is an excellent opportunity to advance one's learning and enhance one's practical work experience while carrying out one's own research. Those interested in the assistantship should visit the PWRI website for further information.

#### Science, Technology and Innovation Policy Program

This program is designed to develop highly skilled professionals who can apply scientific approaches to the design and proposal of effective science, technology and innovation (STI) policies (including science policy, industrial technology policy, innovation policy, environmental policy, and energy policy) in national and local governments, universities, public institutions, and companies; and researchers who can conduct research on and deliver education in STI policy at



universities and public research institutes.

In knowledge-based societies, where knowledge has a major impact on economic and social development, the role of STI policy is rapidly expanding, not only for the development of scientific knowledge, but also for the creation of new industries and the resolution of social issues such as those targeted by the SDGs. Also, in the age of digitization, methodology for research development and innovation has changed; now it is necessary to acquire an understanding of the nature of optimal policy and management.

We host prominent academics from Japan and abroad who are experts on STI policy related research. To enhance the practical aspect of research education, the program also brings in lecturers who are engaged on the frontline of current STI policy work. In the course of the above activities, the program holds a range of research workshops and seminars and invites a wide range of expertise, including eminent researchers and practitioners, current policy administrators, politicians, and corporate representatives.

### **Policy Professionals Program**

This program is designed to develop the policy analysis skills of government officials, journalists, and the like, through a case study approach.

The central focus of this program, reflecting GRIPS' aim of training policy practitioners with a high level of both practical knowledge and policy analysis skills on a foundation of academic learning, is the completion of doctoral dissertations based on case study research. The program specifically

targets practitioners with substantial professional policy experience who also have basic policy analysis skills.

First-year students generally attend an intensive series of lectures and seminars, and draw on the latter to create their dissertation outlines. In second year, they return to their places of employment and their professional duties, and continue their research toward completion of their dissertations, earning their doctorates within three years.

The program seeks to make maximum use of the students' experience and awareness of policy issues, combining it efficiently with academic training at GRIPS to generate outstanding case study research, in the process honing the students' policy practitioner skills to top-class level. To that end, the curriculum focuses on the development of analytical skills in the necessary academic disciplines; broadening of the students' perspectives; and teaching research skills in the context of undertakings including dissertation writing. The program draws on the central areas of politics and public administration, and more broadly on a wide range of disciplines including economics, international relations, law, and engineering.

Entry is generally limited to policy practitioners who hold master's degrees and have the necessary practical experience and/or research skills to undertake case study research in Japanese at the doctoral level. Applicants should have at least 10 years' experience working in organizations such as government departments, in journalism, or in non-profit organizations.

**Table 3: Outline of the Qualifying Examination (QE)**

Students can take QE when they have completed (or are expected to complete) all the designated courses and have obtained the required number of credits, which is generally conducted around the end of the first year. (See Table 4 for the model schedule of QE.)  
The QE consists of written and oral examinations in all programs except the Policy Analysis Program, where it consists of a Basic QE and a Field QE.

Program	Written QE / Basic QE		Oral QE /Field QE	
	Subjects/ Examiners	Implementation	Examiners	Implementation
Policy Analysis	<p>Basic QE is a written examination on: Microeconomics Macroeconomics Econometrics. set by the faculty members in charge of each QE subject</p> <p>*The requirement for taking the Basic QE is successful completion of Advanced Microeconomics (I, II), Advanced Macroeconomics (I, II) Advanced Econometrics (I, II)</p>	In-class, closed-book exam on one subject per day.	<p>-Main advisor -Sub advisors In principle, there must be at least three examiners.</p> <p>*The requirements for taking the Field QE are: (a) passing grade on the Basic QE in all three subjects; (b) completion of six credits of 'Recommended Courses'; (c) completion of "Graduate Seminar I"; (d) consent of the main advisor</p>	In principle, this exam consists of a draft chapter of initial research results, together with an oral presentation followed by a question period.
GRIPS Global Governance (G-cube)	Total three subjects			
Disaster Management	One subject set by the main advisor and two subjects set by the sub advisors or the designated faculty.	In-class or take-home; and open- or closed-book, at the discretion of the main advisor.	-Main advisor -Sub advisors In principle, there must be at least three examiners.	This is an oral presentation on the student's research proposal, followed by a question and answer session.
Science, Technology and Innovation Policy				
Policy Professionals	One subject set by the main advisor.			

## 5. Degree Programs for Doctoral Students

**Academic Year 2024-2029 Curriculum  
(1)-1 Policy Analysis (Five Year Ph.D. Course)**

Category	Course No.	Course Name	Instructor	Term	Credit	Master's	Ph.D.
I Required Courses	ECO6000E	Advanced Microeconomics I	YAMAZAKI Akio	Fall (Session I)	2	16	8
	ECO6010E	Advanced Microeconomics II	YAMAZAKI Akio	Fall (Session II)	2		
	ECO6050E	Advanced Macroeconomics I	PORAPAKKARM Ponpoje	Fall (Session I)	2		
	ECO6060E	Advanced Macroeconomics II	FUJIMOTO Junichi	Fall (Session II)	2		
	ECO6700E	Advanced Econometrics I	WIE Dainn	Fall (Session I)	2		
	ECO6710E	Advanced Econometrics II	LITSCHIG Stephan	Fall (Session II)	2		
	ECO7010E	Graduate Seminar I	LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro, GOTO Jun	Spring/Fall	4		
	ECO7020E	* Graduate Seminar II	LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro, GOTO Jun	Spring/Fall	4		
	ECO7030E	* Graduate Seminar III	LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro, GOTO Jun	Spring/Fall	4		
II Recommended Courses	ECO6020E	Advanced Microeconomics III	TBA	TBA	2	30	38 (Including master's credits)
	ECO6030E	Advanced Microeconomics IV	TBA	Spring (Session II)	2		
	ECO6070E	Advanced Macroeconomics III	HSU Minchung	Spring (Session I)	2		
	ECO6080E	Advanced Macroeconomics IV	BRAUN Richard Anton	Spring (Session II)	2		
	ECO6720E	Advanced Econometrics III	LEON-GONZALEZ Roberto	Spring(Session I)	2		
	ECO6730E	Advanced Econometrics IV	GOTO Jun	Spring(Session II)	2		
		See Auxiliary Table					
III Elective courses	ECO2720EB	Introduction to Applied Econometrics	IZUMI Yutaro	Fall	2	30	38 (Including master's credits)
	ECO3000E	Mathematics for Economic Analysis	MAKDISSI Etienne	Fall	2		
	ECO7040E	* Graduate Seminar IV	LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro, GOTO Jun	Spring/Fall	4		
	ECO7050E	* Graduate Seminar V	LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro, GOTO Jun	Spring/Fall	4		
		Courses not listed in this table (with Program Director's approval).					
X Others		** Courses offered by the Center for Professional Communication					

Notes:

1. Course requirements:  
For a Master's degree, students must complete a minimum of 30 credits, 16 of which must come from Category I, and 6 of which from Category II.  
For the Ph.D. degree, students must complete a minimum of 38 credits in total. Students must complete a minimum of 24credits from Category I and 6 credits from Category II.
2. If a student takes the same course in both English and Japanese, only one course will count toward the degree.
3. The courses marked with \* can be registered only by those who passed at least one of the subjects of the Basic QE (Microeconomics, Macroeconomics, and/or Econometrics).
4. A student who has passed the Basic QE is required to attend the Policy Analysis Research Workshop and make at least two presentations prior to submitting the Ph.D. dissertation.
5. Students are required to submit a policy paper as a requirement for the Master's degree. In the PA program, this is done in Graduate Seminar I.
6. Students who do not have any sufficient backgrounds in intermediate level microeconomics, macroeconomics, and econometrics should take Microeconomics I, II, Macroeconomics I, II, and Introduction to Applied Econometrics.
7. \*\* Credits earned in these courses cannot count toward the degree.
8. The degree title shall be 'Ph.D. in International Economics', 'Ph.D. in Development Economics' or 'Ph.D. in Public Economics' determined according to the electives taken by the student, the content of the dissertation and the advice of the Program Director.
9. Courses offered in the Program are subject to change.

## 5. Degree Programs for Doctoral Students

### Academic Year 2024-2027 Curriculum (1)-2 Policy Analysis (Three Year Ph.D. Course)

Category	Course No.	Course Name	Instructor	Term	Credit	Ph.D.
I Required Courses	ECO6000E	* Advanced Microeconomics I	YAMAZAKI Akio	Fall (Session I)	2	24
	ECO6010E	* Advanced Microeconomics II	YAMAZAKI Akio	Fall (Session II)	2	
	ECO6050E	* Advanced Macroeconomics I	PORAPAKKARM Ponpoje	Fall (Session I)	2	
	ECO6060E	* Advanced Macroeconomics II	FUJIMOTO Junichi	Fall (Session II)	2	
	ECO6700E	* Advanced Econometrics I	WIE Dainn	Fall (Session I)	2	
	ECO6710E	* Advanced Econometrics II	LITSCHIG Stephan	Fall (Session II)	2	
	ECO7010E	Graduate Seminar I	LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro, GOTO Jun	Spring/Fall	4	
	ECO7020E	** Graduate Seminar II	LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro, GOTO Jun	Spring/Fall	4	
	ECO7030E	** Graduate Seminar III	LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro, GOTO Jun	Spring/Fall	4	
II Recommended Courses	ECO6020E	* Advanced Microeconomics III	TBA	TBA	2	6
	ECO6030E	* Advanced Microeconomics IV	TBA	Spring (Session II)	2	
	ECO6070E	* Advanced Macroeconomics III	HSU Minchung	Spring (Session I)	2	
	ECO6080E	* Advanced Macroeconomics IV	BRAUN Richard Anton	Spring (Session II)	2	
	ECO6720E	* Advanced Econometrics III	LEON-GONZALEZ Roberto	Spring(Session I)	2	
	ECO6730E	* Advanced Econometrics IV	GOTO Jun	Spring(Session II)	2	
		See Auxiliary Table				
III Elective Courses		Courses not listed in this table (with Program Director's approval).				
X Others		*** Courses offered by the Center for Professional Communication				

Notes:

- This table applies to those who commenced from a GRIPS master's program with a Master's degree (internal students hereafter), and to those with equivalent ability to internal students.
- Course requirements: For the Ph.D. degree, students must complete a minimum of 34 credits, 24 of which must come from Category I and 6 from Category II.
- Internal Students may claim up to 10 credits to be transferred to the courses marked with \*. With the permission of the Program Director, students who have taken all the required 6 Advanced courses as GRIPS Masters students may substitute one other ECO course.
- The courses marked with \*\* can be registered only by those who passed at least one of the subjects of the Basic QE (Microeconomics, Macroeconomics and/or Econometrics).
- A student who has passed the Basic QE is required to attend the Policy Analysis Research Workshop and make at least two presentations prior to submitting the Ph.D. dissertation.
- If a student takes the same course in both English and Japanese, only one course will count toward the degree.
- \*\*\* Credits earned in these courses cannot count toward the degree.
- The degree title shall be 'Ph.D. in International Economics', 'Ph.D. in Development Economics' or 'Ph.D. in Public Economics' determined according to the electives taken by the student, the content of the dissertation and the advice of the Program Director.
- Courses offered in the Program are subject to change.

## 5. Degree Programs for Doctoral Students

[AuxiliaryTable] Policy Analysis Program

Category	Course No.	Course Name	Instructor	Term	Credit
II Recommended Courses	ECO2020EA	Government and Market	OKAMOTO Ryosuke	Winter	2
	ECO2610E	Finance and Economic Growth	TBA	TBA	2
	ECO2770E	Applied Econometrics	LITSCHIG Stephan	Winter	2
	ECO2780E	Applied Econometrics Practice	LITSCHIG Stephan	Winter	2
	ECO2790E	Data Science for Public Policy	GOTO Jun	Spring	2
	ECO3104E	Political Economy	IZUMI Yutaro	Spring	2
	ECO3130E	Economics of Tax Policy	YAMAZAKI Akio	Winter	2
	ECO3210E	Competition and Regulatory Economics	TANAKA Makoto	Spring	2
	ECO3400E	International Trade	HSU Minchung	Spring (Session I)	2
	ECO3490E	International Economic Policy Analysis	KAWASAKI Kenichi	Spring	2
	ECO3510E	Environmental Economics	TBA	TBA	2
	ECO3530E	Resource and Energy Economics	TANAKA Makoto	Winter	2
	ECO3710E	Time Series Analysis	LEON-GONZALEZ Roberto	Spring(Session I)	2
	ECO3720E	Cost Benefit Analysis I	KIDOKORO Yukihiro	Winter	2
	ECO3740E	Economic Modeling for Policy Simulations	HOSOE Nobuhiro	Summer	2
	ECO3840EB	Development Economics	KIJIMA Yoko	Winter	2
	ECO3870E	Agricultural Development	KIJIMA Yoko	Spring (Session I)	2
	ECO3890E	Development Econometrics	TAKAHASHI Kazushi	Summer	2
	ECO3920E	Economic History and Institutions	IZUMI Yutaro	Spring	2
	ECO5910E	Guided Self-Study I	Various	Fall/Winter/Spring/Summer	2
	ECO5920E	Guided Self-Study II	Various	Fall/Winter/Spring/Summer	2
	ECO6770E	Computer Programming for Economics	PORAPAKKARM Ponpoje	Fall (Session II)	2
	ECO6810E	Advanced Development Economics	NAGASHIMA Masaru	Spring	2
	ECO6820E	Economics of Health and Education	YAMAUCHI Chikako	Fall (Session I)	2
	ECO9010E	Advanced Research Methods in Macroeconomics	BRAUN Richard Anton	Spring(session II) through Fall	2

Notes:

Students need the approval of the program director and the supervisor (if assigned) to register in these courses.

## Academic Year 2024-2027 Curriculum

## (2) GRIPS Global Governance Program (G-cube) (Three Year Ph.D. Course)

Category	Course No.	Course Name	Instructor	Term	Credit	Ph.D.
I Required Courses	GGG5040EA	Dissertation Proposal Seminar	TAKAHASHI Kazushi	Fall through Winter	1	4
	GGG6000E	Executive Seminar	TAKAHASHI Kazushi	Summer	1	
	GGG6050E	G-cube Workshop	IWAMA Yoko, KIJIMA Yoko, TAKAGI Yusuke	Fall/Winter/Spring/Summer	2	
II Recommended Courses		See Auxiliary Table				18
	GGG5110E	* Tutorial I	Various	Fall/Winter/Spring/Summer	2	
	GGG5120E	* Tutorial II	Various	Fall/Winter/Spring/Summer	2	
	GGG5130E	* Tutorial III	Various	Fall/Winter/Spring/Summer	2	
III Elective Courses		Courses not listed in this table (with the advisory committee's approval)				22
X Others		** Courses offered by the Center for Professional Communication				

Notes:

- Students are required to complete a minimum of 22 credits. Of these credits, 4 credits must come from Category I and 14 credits from Category II. The remaining 4 credits may be taken from Category II or III.
- Students are required to pass the qualifying exam (QE) consisting of three written exams and an oral exam.
- To take the QE, students in GGS and IDS Concentration are required to complete Dissertation Proposal Seminar (GGG5040EA) and 10 credits from Category II including 2 credits of Tutorial (GGG5110E or GGG5120E). Students in SIS Concentration are required to complete Dissertation Proposal Seminar (GGG5040EA) and 10 credits from Category II including 4 credits from Group A in Auxiliary Table.
- Students can take G-cube Workshop (GGG6050E) and Tutorial III(GGG5130E) for credit only after passing the QE.
- \* Tutorials are small-sized classes with two to five students. Tutorials count toward the degree only if they satisfy the rules specified by the G-cube Tutorial Guideline.
- \*\* Credits earned in these courses cannot count toward the degree.
- Courses offered in the Program are subject to change.

## 5. Degree Programs for Doctoral Students

[AuxiliaryTable] GRIPS Global Governance Studies Concentration

Category	Course No.	Course Name	Instructor	Term	Credit	Ph.D.
II Recommended Courses	GOV3280E	Analysis of Great Power Politics	IWAMA Yoko, et al.	Spring	2	8
	GOV6300E	State and Governance	TAKAGI Yusuke	Spring	2	
	GOV6460E	Advanced International Relations in East Asia	TAKAGI Yusuke	Fall	2	
	GOV6461E	The Making of Modern Japan (Advanced)	PRESSELLO Andrea	Fall	2	
	GOV6901E	Advanced Comparative Development Studies of Asia	LIM Guanie	Winter	2	
	GOV7231E	Politics and Diplomacy in Postwar Japan	KITAOKA Shinichi, PRESSELLO Andrea	Spring	2	
	GOV7241E	Advanced International Security Studies	MICHISHITA Narushige	Fall	2	
	GOV7311E	Comparative Politics	TAKENAKA Harukata	Fall	2	
	GOV7461E	State and Politics in Southeast Asia (Advanced)	LIM Guanie	Spring (Session I)	2	
	GOV8311E	Advanced Comparative Political Economy	KANCHOOCHAT Veerayooth	Spring	2	
	GOV8401E	Advanced International Relations in Europe	IWAMA Yoko	Spring	2	
	GEN8001E	International Development Policy	OHNO Izumi	Winter	2	
	ECO2720EA	* Introduction to Applied Econometrics	WIE Dainn	Fall	2	2
	ECO2720EB	* Introduction to Applied Econometrics	IZUMI Yutaro	Fall	2	
	ECO2770E	Applied Econometrics	LITSCHIG Stephan	Winter	2	
	ECO2780E	Applied Econometrics Practice	LITSCHIG Stephan	Winter	2	
	ECO2790E	Data Science for Public Policy	GOTO Jun	Spring	2	
	ECO3490E	International Economic Policy Analysis	KAWASAKI Kenichi	Spring	2	
	ECO3530E	Resource and Energy Economics	TANAKA Makoto	Winter	2	
	ECO3620E	Fiscal and Monetary Policy in a Changing World	TBA	TBA	2	
	ECO3810E	Economic Development of Japan	HASHINO Tomoko, MATSUNAGA Masaei	Fall	2	
	ECO3840EB	Development Economics	KIJIMA Yoko	Winter	2	
	ECO3860E	Development History of Asia: Policy, Market and Technology	NAKAO Takehiko	Spring	2	
	ECO3870E	Agricultural Development	KIJIMA Yoko	Spring (Session I)	2	
	ECO3890E	Development Econometrics	TAKAHASHI Kazushi	Summer	2	
	ECO3920E	Economic History and Institutions	IZUMI Yutaro	Spring	2	
	ECO6090E	Theoretical Foundation of Economic Policy	TAKAHASHI Kazushi	Fall	2	
	ECO6810E	Advanced Development Economics	NAGASHIMA Masaru	Spring	2	
	ECO6820E	Economics of Health and Education	YAMAUCHI Chikako	Fall (Session I)	2	
	ECO7881E	Trade and Industrial Development	SONOBE Tetsushi	Fall	2	

Notes:

The students in the GGS Concentration need to earn at least 8 credits from GOV courses and 2 credits from ECO or GEN courses listed under Category II.

\*The students are not allowed to take both ECO2720EA and ECO2720EB for credit.

[AuxiliaryTable] GRIPS International Development Studies Concentration

Category	Course No.	Course Name	Instructor	Term	Credit	Ph.D.
II Recommended Courses	GOV3280E	Analysis of Great Power Politics	IWAMA Yoko, et al.	Spring	2	2
	GOV6300E	State and Governance	TAKAGI Yusuke	Spring	2	
	GOV6460E	Advanced International Relations in East Asia	TAKAGI Yusuke	Fall	2	
	GOV6461E	The Making of Modern Japan (Advanced)	PRESSELLO Andrea	Fall	2	
	GOV6901E	Advanced Comparative Development Studies of Asia	LIM Guanie	Winter	2	
	GOV7231E	Politics and Diplomacy in Postwar Japan	KITAOKA Shinichi, PRESSELLO Andrea	Spring	2	
	GOV7241E	Advanced International Security Studies	MICHISHITA Narushige	Fall	2	
	GOV7311E	Comparative Politics	TAKENAKA Harukata	Fall	2	
	GOV7461E	State and Politics in Southeast Asia (Advanced)	LIM Guanie	Spring (Session I)	2	
	GOV8311E	Advanced Comparative Political Economy	KANCHOOCHAT Veerayooth	Spring	2	
	GOV8401E	Advanced International Relations in Europe	IWAMA Yoko	Spring	2	
	GEN8001E	International Development Policy	OHNO Izumi	Winter	2	8
	ECO2720EA	* Introduction to Applied Econometrics	WIE Dainn	Fall	2	
	ECO2720EB	* Introduction to Applied Econometrics	IZUMI Yutaro	Fall	2	
	ECO2770E	Applied Econometrics	LITSCHIG Stephan	Winter	2	
	ECO2780E	Applied Econometrics Practice	LITSCHIG Stephan	Winter	2	
	ECO2790E	Data Science for Public Policy	GOTO Jun	Spring	2	
	ECO3490E	International Economic Policy Analysis	KAWASAKI Kenichi	Spring	2	
	ECO3530E	Resource and Energy Economics	TANAKA Makoto	Winter	2	
	ECO3620E	Fiscal and Monetary Policy in a Changing World	TBA	TBA	2	
	ECO3810E	Economic Development of Japan	HASHINO Tomoko, MATSUNAGA Masaei	Fall	2	
	ECO3840EB	Development Economics	KIJIMA Yoko	Winter	2	
	ECO3860E	Development History of Asia: Policy, Market and Technology	NAKAO Takehiko	Spring	2	
	ECO3870E	Agricultural Development	KIJIMA Yoko	Spring (Session I)	2	
	ECO3890E	Development Econometrics	TAKAHASHI Kazushi	Summer	2	
	ECO3920E	Economic History and Institutions	IZUMI Yutaro	Spring	2	
	ECO6090E	Theoretical Foundation of Economic Policy	TAKAHASHI Kazushi	Fall	2	
	ECO6810E	Advanced Development Economics	NAGASHIMA Masaru	Spring	2	
	ECO6820E	Economics of Health and Education	YAMAUCHI Chikako	Fall (Session I)	2	
	ECO7881E	Trade and Industrial Development	SONOBE Tetsushi	Fall	2	

## Notes:

The students in the IDS Concentration need to earn at least 8 credits from ECO courses and 2 credits from GOV or GEN courses listed in Category II.

\*The students are not allowed to take both ECO2720EA and ECO2720EB for credit.



## Academic Year 2024-2027 Curriculum

## (3) Disaster Management

Category	Course No.	Course Title	Instructor	Term	Credit	
III Electives Courses	DEV2020E	Supply Chain Management for Infrastructure Planners	INOUE Satoshi	Fall	2	8
	DMP2800E	Hydrology	MIYAMOTO Mamoru, KOIKE Toshio, TANAKA Shigenobu	Fall through Winter	2	
	DMP2810E	Hydraulics	HARADA Daisuke	Fall through Winter	2	
	DMP7001E	Advanced Disaster Management Policies A: from Regional and Infrastructure Aspect	HIBINO Naohiko, CHIBANA Takeyoshi	Fall	2	
	DMP7011E	Advanced Disaster Management Policies B: from Urban and Community Aspect	KATAYAMA Koji	Fall	2	
	DEV7501E	Nature Management and Infrastructure (Advanced)	CHIBANA Takeyoshi	Summer	2	
	DMP7831E	Advanced Disaster Risk Reduction for Hydroclimatic Extremes	KOIKE Toshio	Fall through Winter	2	
	DMP7881E	Advanced Geography on Flood Disaster Management	NAGUMO Naoko, SUGAI Toshihiko	Fall through Winter	2	
	DMP7911E	Advanced Crisis and Risk Management	OHARA Miho	Fall through Winter	2	
	DMP8831E	Advanced River Engineering	SHIMIZU Yoshihiko	Fall through Winter	2	
	DMP8841E	Advanced Sediment Transport Mechanics	QIN Menglu, EGASHIRA Shinji	Fall through Winter	2	
	DMP8830E	Advanced Hydrometeorology	KOIKE Toshio, RASMY Mohamed, USHIYAMA Tomoki	Spring	2	
	DMP8840E	Advanced Hydrodynamics	HARADA Daisuke	Spring	2	
	DMP8850E	International Policies on Water and Disasters	HIROKI Kenzo	Fall	2	
			Courses not listed in this table (with the program director's approval)			
<b>Notes</b> 1. Graduation Requirements Students must 1) enroll for at least 3 years, 2) complete a minimum of 8 credits from Category III, 3) receive necessary research guidance, 4) have passed the Qualifying Examination (QE) and have written and defended successfully their doctoral dissertation.  2. The written component of the QEs will be conducted for one course given by the supervisor, and two or three courses given by the advisors.  3. After starting dissertation work, students are required to report on research that they are planning or working on, at Preliminary Presentations(Ph.D. Candidate Seminars).  4. Courses offered in the Program are subject to change.						

## 5. Degree Programs for Doctoral Students

Academic Year 2024-2027

### (4) Science, Technology and Innovation Policy

Category	Course No.	Course Name	Instructor	Term	Credit	Requirement
I Required Courses	ST18011E	Research Seminar I	Various	Fall through Winter/Spring through Summer	1	4
	ST18021E	Research Seminar II	Various	Fall through Winter/Spring through Summer	1	
	ST18031E	Research Seminar III	Various	Fall through Winter/Spring through Summer	1	
	ST18041E	Research Seminar IV	Various	Fall through Winter/Spring through Summer	1	
II Recommended Courses	ECO7721EA	Introduction to Applied Econometrics (Advanced)	WIE Dainn	Fall	2	6
	ECO7881E	Trade and Industrial Development	SONOBE Tetsushi	Fall	2	
	ECO8841EA	Development Economics (Advanced)	MAKINO Momoe	Spring	2	
	MOR7011E	Quantitative Data Analysis	TSUCHIYA Takashi, MOROHOSI Hozumi, TAKENOUCI Takashi	Fall	2	
	MOR1100J	政策科学のためのデータサイエンスと情報数理 I	TSUCHIYA Takashi, TAKENOUCI Takashi	Spring	2	
	MOR2100J	政策科学のためのデータサイエンスと情報数理 II	TSUCHIYA Takashi, TAKENOUCI Takashi	Fall	2	
	DMP8850E	International Policies on Water and Disasters	HIROKI Kenzo	Fall	2	
	GOV7201EB	Advanced International Relations	BRUMMER Matthew	Fall	2	
	ST18001E	Economics of Innovation	INTARAKUMNERD Patarapong	Fall	2	
	ST18011J	科学技術政策過程論	SUNAMI Atsushi	Biyearly Spring	2	
	ST18061J	科学技術イノベーション政策概論	HAYASHI Takayuki, SUMIKURA Koichi, SUZUKI Jun, NEI Hisanori, IIZUKA Michiko, SUNAMI Atsushi, ARIMOTO Tateo	Spring (Session II)	2	
	ST18071J	公的機関からのイノベーション創出	SUMIKURA Koichi, HAYASHI Takayuki, IIZUKA Michiko	Spring (Session II)	2	
	ST18081J	科学技術イノベーション政策立案演習	HAYASHI Takayuki, SHICHIJO Naohiro	Summer	2	
	ST18091E	Politics of Innovation	BRUMMER Matthew	Biyearly Spring	2	
	ST18101J	イノベーションと経済学	SUZUKI Jun	Spring (Session I)	2	
	ST18111J	科学技術イノベーション政策のためのミクロ経済学	NAGANE Hiromi	Fall(session II)	2	
	ST17031E	Bibliometrics and Applications	HAYASHI Takayuki	Biyearly Spring	2	
	ST17031J	ビブリオメトリクスとその応用	HAYASHI Takayuki	Biyearly Spring	2	
	ST17061E	Policy for Higher Education and University-Industry Cooperation	SUMIKURA Koichi	Biyearly Spring	2	
	ST17061J	高等教育・産学連携政策	SUMIKURA Koichi	Fall	2	
	ST17071J	科学技術外交論	HIROKI Kenzo, SUNAMI Atsushi	Fall(session II)	2	
	ST17081E	Comparative Analysis of Science, Technology and Innovation Policy: Asian Experiences	INTARAKUMNERD Patarapong	Fall	2	
	ST17151E	Comparative Paths of Science, Technology and Innovation Policy	UEYAMA Takahiro	TBA	2	
	ST17151J	科学技術イノベーション政策の史的比較	UEYAMA Takahiro	TBA	2	
	ST17161E	Outline of Energy Policy	TAKAHASHI Kazuaki	Fall(Session I)	2	
	ST17171E	Energy and Environmental Science&Technology	TAKAHASHI Kazuaki, SHIBATA Yoshiaki	Spring	2	
	ST17180E	Advanced Energy Policy	TAKAHASHI Kazuaki, SAKAMOTO Toshiyuki	Spring (Session II)	2	
	ST17191E	Roles of Intellectual Property Rights in Globalized World	SUMIKURA Koichi, ESCOFFIER Luca	Biyearly Spring	2	
	ST17201J	科学技術とアントレプレナーシップ	SUMIKURA Koichi, MAKI Kanetaka	Spring	2	
	ST17211E	Science, Technology and Innovation Policy in Developing Country Context	IIZUKA Michiko	Fall	2	
	ST17221J	科学技術イノベーション政策と評価 (Evaluation of Science, Technology and Innovation Policy)	HAYASHI Takayuki	Fall	2	
	ST17231E	Energy Data Analysis	TAKAHASHI Kazuaki, NEI Hisanori	Fall (Session II)	2	
	ST17241E	History of Japanese Science, Technology and Innovation Policy	ARIMOTO TATEO	Fall	2	
	ST17251J	計量分析演習	SUZUKI Jun	Fall (Session I)	2	
	ST17261J	科学技術行政システムと指標	HAYASHI Takayuki, IIZUKA Michiko, IJICHI Tomohiro	Spring (Session I)	2	
	ST17271J	知的財産マネジメント I	SUMIKURA Koichi	Spring	2	
	ST17281J	知的財産マネジメント II	SUMIKURA Koichi	Fall	2	
	ST17291J	デジタルトランスフォーメーション政策	IIZUKA Michiko, HAYASHI Takayuki	Summer	1	
	ST17291E	Digital Transformation Policy	TBA	TBA	1	
	ST18051E	Energy Security	TAKAHASHI Kazuaki, KUTANI Ichiro	Spring	2	
	ST18061E	Energy Policy in Japan	TBA	TBA	2	
	ST18071E	Research Seminar V	Various	Fall through Winter/Spring through Summer	1	
ST18081E	Research Seminar VI	Various	Fall through Winter/Spring through Summer	1		
ST18101J	科学技術イノベーション政策特論 I	TBA	TBA	2		
ST18111J	科学技術イノベーション政策特論 II	TBA	TBA	2		
ST18121J	科学技術イノベーション政策特論 III	TBA	TBA	2		
ST18131J	科学技術イノベーション政策特論 IV	TBA	TBA	2		
ST18141J	科学技術イノベーション政策特論 V	SUMIKURA Koichi	Biyearly Summer	1		
ST18151J	科学技術イノベーション政策特論 VI	TBA	Biyearly Summer	1		
ST18161J	科学技術イノベーション政策特論 VII	UEYAMA Takahiro	Fall (Session I)	1		
ST18171J	科学技術イノベーション政策特論 VIII	TBA	TBA	1		
STR200E	Advanced Topics I	TBA	TBA	1		
III Elective Courses		Courses not listed in this table (with Program Director's approval)				
X Others		Courses offered by the Center for Professional Communication				

Notes:

#### 1. Course Requirements

Students must fulfill the requirements shown below and pass an oral dissertation defense.

- a) Category I: 4 credits
- b) Category II: at least 6 credits
- c) Category II - III: at least 4 credits

Students are expected to take QE after earning at least 2credits from Category I, at least 6 credits from Category II and 2 credits from Category II & Category III (total 10 credits).

If students neither have completed a master degree program relating to the science, technology and innovation policy nor do have sufficient knowledge in this field, it is strongly recommended in this program that they acquire approximately 16 credits before taking QE and totally 20 credits until their completion.

2. If a student takes the same course in both English and Japanese, only one course will count toward the degree.

3. \* Credits earned in these courses cannot count toward the degree.

4. Courses offered in the Program are subject to change.

5. In addition to the above, students can take "科学技術社会論概論", "地域サステナビリティ" and "東アジア地域の科学技術イノベーション政策" which are the courses offered by Kyushu University, as courses required for completion (Category II Recommended Courses), following prescribed procedures. The names of courses offered at Kyushu University are subject to change.

## Academic Year 2024-2027 Curriculum

## (5) Policy Professionals 政策プロフェッショナルプログラム

区分	科目番号	科目名	担当教員	学期	単位	
II 選択必修科目	GOV6100J	政策過程論特別演習 (Special Seminar for Policy Process)	IIO Jun	Spring	2	4
	GOV6910J	事例研究方法論 (Scope and Methods of Case Studies)	IIO Jun	Summer/Winter	2	
	GOV6920J	社会科学方法論＝質的分析 (Social Science Methodology for Qualitative Analysis)	IIO Jun	Fall	2	
	GOV6930J	社会科学方法論＝量的分析 (Social Science Methodology for Quantitative Analysis)	MASUYAMA Mikitaka	Spring	2	
III 選択科目	GOV6110J	日本政治研究特別演習 (Special Seminar for Japanese Politics)	TAKENAKA Harukata	Fall	2	10
	GOV6460E	Advanced International Relations in East Asia	TAKAGI Yusuke	Fall	2	
	GOV6520J	行政学特別演習 (Special Seminar for Public Administration)	TBA	TBA	2	
	GOV7101J	政策過程論 (Policy Process)	IIO Jun	Spring	2	
	GOV7201EB	Advanced International Relations	BRUMMER Matthew	Fall	2	
	GOV7231E	Politics and Diplomacy in Postwar Japan	KITAOKA Shinichi, PRESSELLO Andrea	Spring	2	
	GOV7241E	Advanced International Security Studies	MICHISHITA Narushige	Fall	2	
	GOV7311E	Comparative Politics	TAKENAKA Harukata	Fall	2	
	GOV8221E	Politics of Global Money and Finance (Advanced)	CHEY Hyoung-kyu	Fall	2	
	GOV8311E	Advanced Comparative Political Economy	KANCHOOCHAT Veerayooth	Spring	2	
	GOV8401E	Advanced International Relations in Europe	IWAMA Yoko	Spring	2	
	MOR6300EJ	Mathematical Modeling Analysis / 数理モデル分析	TSUCHIYA Takashi, MOROHOSI Hozumi, TAKENOUCI Takashi	Spring	2	
	MOR7011E	Quantitative Data Analysis	TSUCHIYA Takashi, MOROHOSI Hozumi, TAKENOUCI Takashi	Fall	2	
	STI6061J	科学技術イノベーション政策概論	HAYASHI Takayuki, SUMIKURA Koichi, SUZUKI Jun, NEI Hisanori, IIZUKA Michiko, SUNAMI Atsushi, ARIMOTO Tateo	Spring (Session II)	2	
	本学で開講されている科目のうち、政策プロフェッショナルプログラム委員会が定めた科目 (Courses not listed in this table, admitted by the Program Committee.)					
X その他		プロフェッショナル・コミュニケーションセンター開講科目				
備考						
1 修了要件 政策事例研究演習 (Seminar for Policy Case Studies)(通年)を受講し、次の①および②に示す要件を満たし、Qualifying Examination (QE)に合格した上で、最終論文試験に合格すること。 ① 区分 II 4単位以上 ② 区分 II・III 10単位以上 なお、入学の際に、プログラム・コミッティーが、上記単位数以上の履修を要求したときには、それに従うこと。						
2 授業科目は、年度途中で追加開設・変更される場合がある。						
3 授業内容が同様である日本語の授業科目と英語の授業科目の両方を履修した場合は、いずれか一方の単位を修了に必要な単位としてカウントする。						
4 区分Xで取得した単位は修了要件に含まない。						

## Certificate in Data Science for Policy Studies

### Overview

To encourage GRIPS students to take data science-related courses, GRIPS established a Certificate System in Data Science (DS) for Policy Studies in October 2021. Under the certificate system, students will be awarded a DS certificate upon fulfilling all the followings requirements

### Application.

Students must submit DS Certificate Application Form to Academic Support Team during the registration period for the spring II term (for September graduates) or the fall II term (for March graduates). Further application process and other important notes will be provided separately.

### Requirements for DS certificate

1. Earning two or more credits from the following data science/basic/core courses:

- Introduction to Data Science I
- Introduction to Data Science II
- Data Science for Public Policy

Four other courses are offered in Japanese.

2. Earning 10 (two-credit courses x five) or more credits (five two-credit courses) from the data science-related courses, including ones listed above (please refer to Table1: List of Data Science-related Courses to see all).

&lt;別紙 1:/Table 1&gt;

## DS関連科目群リスト/ List of DS-related Courses

As of August 22, 2024

Course Number	Courses	Instructor	Term	Credit
MOR1000E	Introduction to Quantitative Methods	MOROHOSI Hozumi	Fall	2
*MOR1030E	Introduction to Data Science	TBA	TBA	2
*MOR1050EA	Introduction to Data Science I	TSUCHIYA Takashi	Fall(Session I)	2
*MOR1050EB	Introduction to Data Science I	MOROHOSI Hozumi	Fall(Session I)	2
*MOR2020E	Data Science in Practice	TBA	TBA	2
*MOR2050E	Introduction to Data Science II	TAKENOUCI Takashi	Fall (Session II)	2
MOR2500E	Quantitative Social Systems Analysis	TSUCHIYA Takashi, MOROHOSI Hozumi, TAKENOUCI Takashi	Spring	2
MOR3050E	Practice STATA	TSUCHIYA Takashi	Winter	1
MOR3060E	Practice R	TSUCHIYA Takashi, MOROHOSI Hozumi, TAKENOUCI Takashi	Winter	1
MOR6300E/J	Mathematical Modeling Analysis / 数理モデル分析	TSUCHIYA Takashi, MOROHOSI Hozumi, TAKENOUCI Takashi	Spring	2
MOR7011E	Quantitative Data Analysis	TSUCHIYA Takashi, MOROHOSI Hozumi, TAKENOUCI Takashi	Fall	2
ECO2720EA	Introduction to Applied Econometrics	WIE Dainn	Fall	2
ECO2720EB	Introduction to Applied Econometrics	IZUMI Yutaro	Fall	2
ECO2760E	Applied Time Series Analysis for Macroeconomics	LEON-GONZALEZ Roberto	Winter	2
ECO2770E	Applied Econometrics	LITSCHIG Stephan	Winter	2
ECO2780E	Applied Econometrics Practice	LITSCHIG Stephan	Winter	2
*ECO2790E	Data Science for Public Policy	GOTO Jun	Spring	2
ECO3000E	Mathematics for Economic Analysis	MAKDISSI Etienne	Fall	2
ECO3490E	International Economic Policy Analysis	KAWASAKI Kenichi	Spring	2
ECO3710E	Time Series Analysis	LEON-GONZALEZ Roberto	Spring (Session I)	2
ECO3720E	Cost Benefit Analysis I	KIDOKORO Yukihiko	Winter	2
ECO3740E	Economic Modeling for Policy Simulations	HOSOE Nobuhiro	Summer	2
ECO3890E	Development Econometrics	TAKAHASHI Kazushi	Summer	2
ECO6770E	Computer Programming for Economics	PORAPAKKARM Ponpoje	Fall (Session II)	2
ECO6700E	Advanced Econometrics I	WIE Dainn	Fall (Session I)	2
ECO6710E	Advanced Econometrics II	LITSCHIG Stephan	Fall (Session II)	2
ECO6720E	Advanced Econometrics III	LEON-GONZALEZ Roberto	Spring (Session I)	2
ECO6730E	Advanced Econometrics IV	GOTO Jun	Spring (Session II)	2
ECO7721EA	Introduction to Applied Econometrics (Advanced)	WIE Dainn	Fall	2
ECO7721EB	Introduction to Applied Econometrics (Advanced)	IZUMI Yutaro	Fall	2
ECO7771E	Applied Econometrics (Advanced)	LITSCHIG Stephan	Winter	2
STI2030E	Bibliometrics and Applications	HAYASHI Takayuki	Biyearly Spring	2
STI2230E	Energy Data Analysis	TAKAHASHI Kazuaki, NEI Hisanori	Fall (Session II)	2
STI7031E	Bibliometrics and Applications	HAYASHI Takayuki	Biyearly Spring	2
STI7231E	Energy Data Analysis	TAKAHASHI Kazuaki, NEI Hisanori	Fall (Session II)	2
*MOR1030J	データサイエンス基礎	土谷 隆	春前	2
*MOR1100J	政策科学のためのデータサイエンスと情報数理 I	土谷 隆、竹之内 高志	春	2
MOR2000J	計画と評価の数理	諸星 穂積	春	2
*MOR2020J	実践データサイエンス	竹之内 高志	春後	2
*MOR2100J	政策科学のためのデータサイエンスと情報数理 II	土谷 隆、竹之内 高志	秋	2
MOR3010J	数理モデル分析演習	土谷 隆、諸星 穂積、竹之内 高志	秋	2
ECO2700J	計量経済学	黒澤 昌子	春	2
ECO2710J	費用便益分析	城所 幸弘	春後	2
ECO3330J	都市政策の空間分析	金本 良嗣、河端 瑞貴、安田 昌平	春	2
ECO3700J	計量経済学の応用と実践	後藤 潤	夏	2
ECO3750J	経済シミュレーション分析	細江 宣裕	秋	2
ECO3760J	費用便益分析の応用と実践	城所 幸弘	夏	2
GOV6930J	社会科学方法論＝量的分析 (Social Science Methodology for Quantitative Analysis)	MASUYAMA Mikitaka	Fall	2
STI2030J	ピリオドメトリクスとその応用	林 隆之	隔年春	2
STI2250J	計量分析演習	鈴木 潤	秋前	2
STI7031J	ピリオドメトリクスとその応用	HAYASHI Takayuki	Biyearly Spring	2
STI7251J	計量分析演習	SUZUKI Jun	Fall (Session I)	2

※1 \*を付した科目はデータサイエンス基幹的・基礎的科目。  
Courses with \* are data science basic/core courses.

※2 開講学期及び担当教員の変更や開講しない場合がある。  
The term as well as instructors of a course may be changed or it may not be offered.

※3 修了直前の夏学期または冬学期の科目は、成績評価のスケジュールの都合上、DS認定証授与要件には含まれない場合があるので注意すること。  
Note that data science related courses completed in the summer or winter term immediately before completion may not be registered at the time of certificate judgement, due to the timing of grading.

Doctoral Programs TIMETABLE (Apr. 4, 2024~Mar. 31, 2025)

As of August 19, 2024

Term	Day	1 (9:00-10:30)				2 (10:40-12:10)				3 (13:20-14:50)				4 (15:00-16:30)				5 (16:40-18:10)				6 (18:20-19:50)				19:30-21:00					
		Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room		
Fall (Oct. 7- Jan. 28)	Mon					DMP 8850 E	International Policies on Water and Disasters	Hiroki	G					MOR 7011 E	Quantitative Data Analysis	Tsuchiya, Morohosi, Takenouchi	G	LAN 1010 JA	Basic Japanese 1A	Petchko, et al.	J										
						ECO 6700 E	Advanced Econometrics I (Session I)				Wie	H	ECO 6090 E	Theoretical Foundation of Economic Policy	Takahashi Kazushi	I															
						ECO 6060 E	Advanced Macroeconomics II (Session II)				Fujimoto	H																			
	Tue	STI 7081 E	Comparative Analysis of Science, Technology and Innovation Policy: Asian Experiences	Intarakumnerd	E	STI 6001 E	Economics of Innovation	Intarakumnerd	E	GOV 6110 J	日本政治研究特別演習 (Special Seminar for Japanese Politics)	Takenaka	H	GOV 6920 J	社会科学方法論=質的分析 (Social Science Methodology for Qualitative Analysis)	lio	研究室 4D	GOV 7241 E	Advanced International Security Studies	Michishita	F	ECO 9010 E	Advanced Research Methods in Macroeconomics				Braun	E			
						GOV 7311 E	Comparative Politics	Takenaka	Research Meeting Room 4F	ECO 6770 E	Computer Programming for Economics (Session II)				Porapakkarm	A	ECO 8001 E	Mathematics for Economic Analysis (Advanced)	Makdissi	D											
		ECO 6710 E	Advanced Econometrics II (Session II)				Litschig	H			LAN 2010 JA	Intermediate Japanese 1A	Petchko, et al.	G	LAN 1010 JB	Basic Japanese 1B	Petchko, et al.	J													
	Wed	GOV 8221 E	Politics of Global Money and Finance(Advanced)	Chey	J	ECO 6820 E	Economics of Health and Education (Session I)	Yamauchi	G	ECO 7721 EA	Introduction to Applied Econometrics (Advanced)	Wie	M	GOV 6210 E	International Political Economy Workshop	Chey	C	ECO 7010E - ECO 7070E	Graduate Seminar I~VII	Litschig, Yamazaki, Izumi, Goto	K	LAN 0310 E	Introduction to Academic Writing (Session I)	Petchko, et al.	CDEGIJ	STI 7061 J	高等教育・産学連携政策	Sumikura	H		
		STI 7211 E	Science, Technology and Innovation Policy in Developing Country Context	Iizuka	C	ECO 7721 EB	Introduction to Applied Econometrics (Advanced)	Izumi	L					GOV 6460 E	Advanced International Relations in East Asia	Takagi	D	GOV 6461 E	The Making of Modern Japan(Advanced)	Pressello	M										
										LAN 3010 J	Advanced Japanese 1	Petchko, et al.	H	LAN 1010 JC	Basic Japanese 1C	Petchko, et al.	J	LAN 2010 JB	Intermediate Japanese 1B	Petchko, et al.	J										
	Thu					ECO 7021 J	政府と市場 (Government and Market)	Hosoe	I					STI 7241 E	History of Japanese Science, Technology and Innovation Policy	Arimoto	H	GOV 7201 EB	Advanced International Relations	Brummer	D	LAN 0300 E	Introduction to Academic Research (Session I)	Petchko, et al.	Soukairo u Hall						
						ECO 6820 E	Economics of Health and Education (Session I)	Yamauchi	G	ECO 6000 E	Advanced Microeconomics I (Session I)				Yamazaki	F			LAN 0150 E	Thesis Writing for MSP (Session II)	O'Neill	C									
						LAN 1010 JD	Basic Japanese 1D	Petchko, et al.	F	ECO 6010 E	Advanced Microeconomics II (Session II)				Yamazaki	F															
													LAN 0170 E	Abstract Writing for Japanese Students (Session I)	Ono Keiko	D															
Fri								GOV 8241 E	Non-Traditional Security (Advanced)	Cross	F													STI 7221 J	科学技術イノベーション政策と評価	Hayashi	H				
								GGG 5040 EA	Dissertation Proposal Seminar	Takahashi Kazushi	G																				
								STI 7161 E	Outline of Energy Policy (Session I)				Takahashi Kazuaki	I																	
								STI 7231 E	Energy Data Analysis (Session II)				Takahashi Kazuaki, Nei	I																	
Sat	STI 8161 J	科学技術イノベーション政策特論Ⅱ (Session I)				Ueyama	H	STI 7251 J	計量分析演習 (Session I)				Suzuki Jun	H																	
	STI 7071 J	科学技術外交論 (Session II)				Hiroki,Sunami	H	STI 6111 J	科学技術イノベーション政策のためのミクロ経済学 (Session II)				Nagane	H																	
		東アジア地域の科学技術イノベーション政策 (STIのみ、九州大学からオンラインで開講) (9:20~12:30)				Moroga	G (オンライン)	STI 7281 J	知的財産マネジメントⅡ (日付未定) (13:00-18:30)				Sumikura	F																	
		科学技術社会論概説 (STIのみ、九州大学からオンラインで開講) (9:20~12:30)				Kobayashi	C (オンライン)																								
					ECO 7881 E	Trade and Industrial Development	Sonobe	D																							

\*This timetable is subject to change.

Term	Day	1 (9:00-10:30)				2 (10:40-12:10)				3 (13:20-14:50)				4 (15:00-16:30)				5 (16:40-18:10)				6 (18:20-19:50)				19:30-21:00			
		Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room	Course No.	Subjects	Instructor	Room
Winter (Feb.3- Mar.31)	Mon									GOV 6901 E	Advanced Comparative Development Studies of Asia				Lim	C	GEN 8001 E	International Development Policy	Ohno Izumi	E									
						ECO 7771 E	Applied Econometrics (Advanced)				Litschig	D																	
	Tue												LAN 1020 JB	Basic Japanese 2B	Petchko, et al.	J													
	Wed								LAN 3020 J	Advanced Japanese 2	Petchko, et al.	J	LAN 1020 JC	Basic Japanese 2C	Petchko, et al.	J	LAN 2020 JA	Intermediate Japanese 2A	Petchko, et al.	J									
	Thu					LAN 1020 JC	Basic Japanese 2C	Petchko, et al.	J								GEN 8001 E	International Development Policy	Ohno Izumi	E									
Fri								GGG 5040 EA	Dissertation Proposal Seminar	Takahashi Kazushi	G																		
								PAD 7681 E	Social Security System in Japan				Ono Taichi	G															

\*This timetable is subject to change.

**Doctoral Programs TIMETABLE (Apr. 4, 2024~Mar. 31, 2025)**

Term	1 (9:00-10:30)			2 (10:40-12:10)			3 (13:20-14:50)			4 (15:00-16:30)			5 (16:40-18:10)			6 (18:20-19:50)			
	Course No.	Instructor	Room	Course No.	Instructor	Room	Course No.	Instructor	Room	Course No.	Instructor	Room	Course No.	Instructor	Room	Course No.	Instructor	Room	
Mon	ECO 5401 E	State and Politics in Southeast Asia (Advanced)(Session I)	Lim	J	Advanced Energy Policy (Session II)	Nak. Saito	I												
	DEV 6401 E	Advanced Transportation Planning and Policy	Haseo	F	Mathematical Modeling / 数理モデリング	Tsuyuki Takemochi	I	GOV 6501 J	政策課題特別演習 (Special Seminar for Policy Issues)	Io	4E	GOV 6501 E	Strategic Studies Research Seminar	Michiaki	I	ECO 6701 E	Advanced Research Methods in Macroeconomics (Session I)	Braun	H
Tue	ECO 6801 E	Advanced Macroeconomics IV (Session I)	Hsu	H	Comparative State Formation (Advanced)(Session II)	Lim	J												
Wed	ECO 6801 E	Advanced Macroeconomics III (Session II)	Yemachi	G	Selected Topics in Policy Studies(Advanced Policy Analysis)	Kitao	H	GOV 6501 E	State and Governance	Takagi	I	ECO 7015 E	Graduate Seminar ~VI	Yamada, Imai, Goto	K	STI 7201 J	科学技術とアパレル・ファッション	Sunkura, Naki	G
	ECO 6801 E	Advanced Development Economics	Yemachi	G	費用便益分析 (Cost-Benefit Analysis)	Pechko, et al.	J	LAN 1030 J	Basic Japanese 3B	Pechko, et al.	J	GOV 7231 E	Politics and Diplomacy in Postwar Japan	Ritaka, Prohara	E				
Thu	GOV 7101 J	政策過程論 (Policy Process)	Ho	L	Advanced Macroeconomics II (Session I)	Muro	J	GOV 8291 E	Analysis of Cold War Policy	Wama, et al.	H								
	ECO 6720 E	Advanced Macroeconomics IV (Session I)	Gojo	I	Advanced Macroeconomics III (Session I)	Gojo	I	LAN 2030 J	Intermediate Japanese 3	Pechko, et al.	J								
Fri	STI 8051 E	Energy Security	Nak. Kunitani	H	Advanced Comparative Politics Economy	Kanouchi	J	STI 7171 E	Energy and Environmental Policy (Advanced)	Nak. Shiohara	H								
	STI 8051 E	Energy Policy (in Japan)	Nak. H	H	Advanced Comparative Politics Economy	Nak. H	H												
Sat	STI 6011 J	科学技術政策演習 (Session I)	Suama	B	科学技術行政システムと組織 (Session I)	Hayashi, Izuka, Kishi	B	STI 6101 J	イノベーションと経済学 (Session I)	Suzuki Jun	H								
	STI 6071 J	公的機関からのイノベーション創出 (Session II)	Sunkura, Izuka, Hayashi	L	科学技術イノベーション政策概論 (Session II)	Suzuki Jun, Nak. Sunkura, Sasaki, Sasaki, Suama, Kitano	L												
					知財制度マネジメント(13.00-18.30) (13.00-18.30)														
					地域サステナビリティ(STI)のみ、本学次学からオンラインで受講														

**\* Intensive Course:**

- ECO375J 経済シミュレーション分析 (Economic Simulation Analysis) 月金の19:30-21:00に実施予定、Room: G
- ECO910E Advanced Research Methods in Macroeconomics: Tue 6 and Night period, Room: E
- STI805J 科学技術イノベーション政策立案演習: 9月3日 (土)、9月4日 (日)、8月10日 (土)、Room: L
- STI729J デジタル・トランスフォーメーション戦略: Schedule and Room: TBA
- STI814J 科学技術イノベーション政策特論V: Schedule and Room: TBA
- GGG600E Executive Seminar: Tuesday 5 period, Room: I
- DEV730E Nature Management and Infrastructure (Advanced): Wednesday 4-5 period, Room: D



## Financial Aid for Doctoral Students

### Tuition Exemption for Doctoral Students

#### Eligibility

Applicants with excellent academic records who have been enrolled in GRIPS doctoral program for more than three years, and who meet any of the criteria listed below are eligible to apply.\*

Note: Students in the former 2-year master's course component of the 5-year doctoral program are not eligible.)

- Have held a dissertation defense and be currently revising the dissertation before graduation.
- Be expected to submit a dissertation and graduate within a year since either April or October when the tuition exemption commences.
- Be planning to return to school and then submit a dissertation and graduate within a year following a leave of absence due to illness or other unavoidable circumstances

\* Excluding the leave of absence periods

#### Screening

The screening committee assesses applications based on the students' progress with their dissertations, grades and research results/accomplishments, and other factors deemed appropriate.

#### Duration of Exemption

- Maximum of one year
- The screening committee will determine the duration of the exemption based on the student's application and dissertation progress.

#### How to Apply

Students should submit an application form to General Affairs Team, along with a recommendation letter from their main advisor, by:

- Late February for an exemption between April and September
- Late August for an exemption between October and March

#### Results

Applicants will be informed by letter of the screening results approximately one month after the end of the application period.

### Teaching Assistants (TA) Research Assistants (RA)

Doctoral students may work at GRIPS as Teaching Assistants (TA) or Research Assistants (RA) if their Program Director deems the activity to be conducive to their studies and/or research, and if the activity does not entail any detrimental effects.

Application for a teaching or research assistantship will be made by the faculty member in charge of the subject or research project. .

### Research Support Grant for Doctoral Students

#### Objective

The objective of this grant is to provide support (available upon application) for doctoral students in the conduct of their research projects and the presentation of their research results, for expenses which cannot be covered by the students themselves. The aim of the grant is to encourage research activities by doctoral students and promote their degree completion.

#### Eligibility

Students who meet both of the following criteria are eligible for this grant.

Note: if you have already submitted your doctoral dissertation or will submit it before the support would begin, you are not eligible to apply.

- (1) Must have passed the QE before the start of the research period specified in the application (or, in the case of applicants from the Policy Analysis Program, must have passed the Basic QE before the start of the research period specified in the application); and
- (2) Must have completed GRIPS Research Ethics and Research Funds Compliance Training before the start of the research period specified in the application.

#### Details of support

- (1) The maximum amount of support under this program is 300,000 yen per doctoral student per fiscal year.



## 5. Degree Programs for Doctoral Students

### **Other**

Those who are eligible to use research funds from sources other than this program shall use those other funds first.

The execution of expenses shall be in accordance with GRIPS internal rules such as *Travel Allowance*

*Regulations and Guidance for Budget Execution.*

### **Contact Information**

Program Management Team (PMT)

E-mail: [docresearchgrant@grips.ac.jp](mailto:docresearchgrant@grips.ac.jp)

## Center for Data Science

### Data Science Education at GRIPS

Data science literacy is becoming indispensable for 21st century policy makers. Therefore, it would be ideal if, during their time at GRIPS, all GRIPS students acquired extensive data science skills for the conduct of real data analysis. Currently we are making a concerted effort to strengthen GRIPS data science education by reorganizing the curriculum so as to allocate more faculty for instruction in data science. Specifically, we are now providing “Introduction to Data Science” and “Data Science in Practice” as core subjects for data science education. In addition, we offer many other subjects related to data science, such as econometrics, operations research, and geophysical information systems. We also encourage GRIPS student involvement in data science by offering a Certificate in Data Science for Policy Studies (see [https://www.grips.ac.jp/en/education/nd\\_certificate/certificate\\_ds/](https://www.grips.ac.jp/en/education/nd_certificate/certificate_ds/) for details).

We strongly recommend that you take these courses if you are considering writing a policy paper involving quantitative analysis. We have seen many cases where a student has collected invaluable, interesting data demonstrating their research ability, but unfortunately ended up with a simplistic descriptive analysis due to a lack of skill in data analysis. This is a great opportunity missed, not only for the student but also for our school. In that light, if you want to use data in your research it is of crucial importance that you become familiar with data science from the beginning of your studies at GRIPS.

### Center for Data Science

Developing data science skills can be likened to learning how to drive in order to get a driver’s license, i.e., it is something that anyone can do, but concentrated training in data science courses is not sufficient: you also need some actual ongoing experience in computer programming and model handling, ideally acquired

through working with your own data. Therefore, it would be ideal to make data analysis a constant element of your routine of activities throughout your studies at GRIPS—then you could get “more than credits for courses.”

To encourage such involvement in data science work, GRIPS launched the Center for Data Science (CDS) in April 2022 to support your study of data science, deepen your knowledge and polish your skills. The faculty members of the center are CDS Director Professor Takashi Tsuchiya, and three other professors, Roberto Leon-Gonzalez, Hozumi Morohosi, and Takashi Takenouchi.

CDS is conveniently located in room C505 on the 5<sup>th</sup> floor at the end of the corridor that opens onto lecture rooms A-H. The main missions of CDS are:

- (1) To provide follow-up on data science-related classes;
- (2) To provide consultations for students and researchers who use data science in their research;
- (3) To provide training sessions in the use of software for data science, including R language and Stata, and in the mathematics necessary for a sufficiently deep understanding of the theoretical aspects of data science;
- (4) To promote joint research relating to data science within and outside GRIPS; and to hold related symposiums; and
- (5) To develop GRIPS's data archives.

The CDS office is open weekdays from 13:20 to 18:10. Teachers and consultant students are ready to help you in a friendly atmosphere, answering any question you have about programming, statistical modeling, and machine learning. We are planning to organize small, informal workshops on computer programming, statistics, machine learning and related mathematics to support you in your study of data science.

Finally, please be sure to visit the CDS web page at the URL below. It’s full of useful tips and information to support your study of data science.

<https://www.grips.ac.jp/en/education/datasciencecenter/>

Thank you very much for your attention. We are looking forward to seeing you at the center, in C505.

## 5. Degree Programs for Doctoral Students

[AuxiliaryTable] GRIPS Security and International Studies Concentration

Category	Course No.	Course Name	Instructor	Term	Credit	Ph.D.	
II Recommended Courses	Group A	GOV6210E	International Political Economy Workshop	CHEY Hyoung-kyu	Fall	2	4
		GOV7201EA	* Advanced International Relations	TBA	TBA	2	
		GOV7201EB	* Advanced International Relations	BRUMMER Matthew	Fall	2	
		GOV7241E	** Advanced International Security Studies	MICHISHITA Narushige	Fall	2	
		GOV7311E	Comparative Politics	TAKENAKA Harukata	Fall	2	
	Group B	GOV3280E	Analysis of Great Power Politics	IWAMA Yoko, et al.	Spring	2	6
		GOV6220E	Strategic Studies Research Seminar	MICHISHITA Narushige	Spring	2	
		GOV6300E	State and Governance	TAKAGI Yusuke	Spring	2	
		GOV6460E	Advanced International Relations in East Asia	TAKAGI Yusuke	Fall	2	
		GOV6461E	The Making of Modern Japan (Advanced)	PRESSELLO Andrea	Fall	2	
		GOV7231E	Politics and Diplomacy in Postwar Japan	KITAOKA Shinichi, PRESSELLO Andrea	Spring	2	
		GOV7461E	State and Politics in Southeast Asia (Advanced)	LIM Guanie	Spring (Session I)	2	
		GOV8221E	Politics of Global Money and Finance (Advanced)	CHEY Hyoung-kyu	Fall	2	
		GOV8311E	Advanced Comparative Political Economy	KANCHOOCHAT Veerayooth	Spring	2	
		GOV8401E	Advanced International Relations in Europe	IWAMA Yoko	Spring	2	
		GEN8001E	International Development Policy	OHNO Izumi	Winter	2	
		ECO3530E	Resource and Energy Economics	TANAKA Makoto	Winter	2	
		ECO3620E	Fiscal and Monetary Policy in a Changing World	TBA	TBA	2	
		ECO3840EB	Development Economics	KIJIMA Yoko	Winter	2	
		ECO3810E	Economic Development of Japan	HASHINO Tomoko, MATSUNAGA Masaei	Fall	2	
ECO3860E	Development History of Asia: Policy, Market and Technology	NAKAO Takehiko	Spring	2			
ECO3870E	Agricultural Development	KIJIMA Yoko	Spring (Session I)	2			
ECO3890E	Development Econometrics	TAKAHASHI Kazushi	Summer	2			
ECO3920E	Economic History and Institutions	IZUMI Yutaro	Spring	2			
ECO6810E	Advanced Development Economics	NAGASHIMA Masaru	Spring	2			
ECO7881E	Trade and Industrial Development	SONOBE Tetsushi	Fall	2			

**Notes:**

The students in the SIS Concentration need to earn at least 4 credits from Groups A and 6 credits from Group B.

\*The students are not allowed to take both GOV7201EA and GOV7201EB for credit. Those who have taken "GOV2200EA or EB International Relations" at the Master's level cannot take "Advanced International Relations" with the same instructor.

\*\*Those who have taken "GOV2240E International Security Studies" at the Master's level are not allowed to take this course for credit.