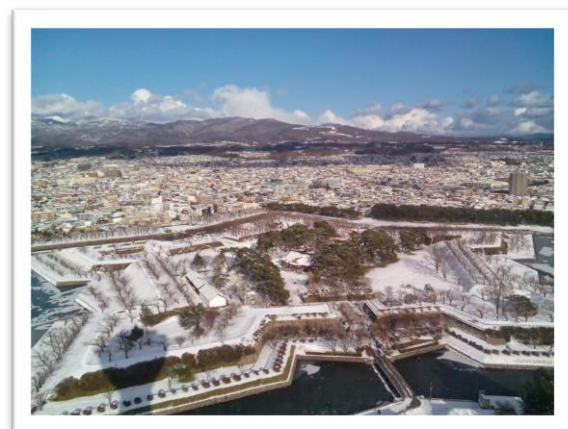


**PARE Program
Graduate Program
for Fostering Frontiers of Practical Solutions
in a Populations-Activities-Resources-Environments (PARE)
Chain**

**Application and Course Guide
(Summer 2020 Admission for PARE Consortium Universities)**



I. PARE Program Outline

The PARE Program offers graduate students, especially master-degree students, the opportunity to work together with other students majoring in different fields with diverse national and cultural backgrounds to create solutions to various issues related to the sustainable management and use of resources in the PARE (Populations-Activities-Resources-Environments) chain.

ASEAN countries have experienced rapid economic growth in recent years, resulting in expansion of middle-class populations and residential concentrations in cities. These urbanization phenomena – that is, the concentration of populations and related activities – cause the depletion of fossil fuels, water and land resources as well as the deterioration of environments. This exacerbates food shortages as well as sanitary and nutritional problems among the poor in particular. These worsening conditions result in higher mortality rates, which are then counterbalanced by higher birth rates and further population growth.

As this vicious cycle in the PARE (Populations-Activities-Resources-Environments) chain strongly affects the global environment, a broad array of activities are needed to solve the problems that arise. These should cover both rural and urban areas and encompass a variety of sectors including forest conservation and development, waste management, biomass utilization, transportation, renewable energy promotion and energy conservation.

To produce leaders and create a network to tackle these issues, seven universities in Indonesia, Japan and Thailand have joined to form the PARE consortium and conduct a joint education program called the “*Graduate Program for Fostering Frontiers of Practical Solutions in a Populations-Activities-Resources-Environments (PARE) Chain*” (PARE Program).

PARE consortium universities in Indonesia:


- ✓ *Institut Pertanian Bogor (IPB)*
- ✓ *Institut Teknologi Bandung (ITB)*
- ✓ *Universitas Gadjah Mada (UGM)*

PARE consortium universities in Japan:

- ✓ *Hokkaido University (HU)*

PARE consortium universities in Thailand:

- ✓ *Chulalongkorn University (CU)*
- ✓ *Kasetsart University (KU)*
- ✓ *Thammasat University (TU)*
- ✓ *Mahidol University (MU)*



The PARE Program helps students develop four key skills needed for solving problems occurring in the PARE chain: “Field Research Capacity”, “Cross Cultural Capability”, “Frontier Spirit” and “Problem Solving Competencies”. By enrolling in this program, you will develop these skills while studying PARE-related issues in a wide range of academic fields, such as agriculture, fisheries science, environmental science, engineering and information science.

This program offers graduate students, especially master-degree students, the PARE Short Program Completion Course. The PARE Short Program Completion Course provides you opportunities to work with other students majoring in different fields with diverse national and cultural backgrounds to find out solutions to PARE-related issues.

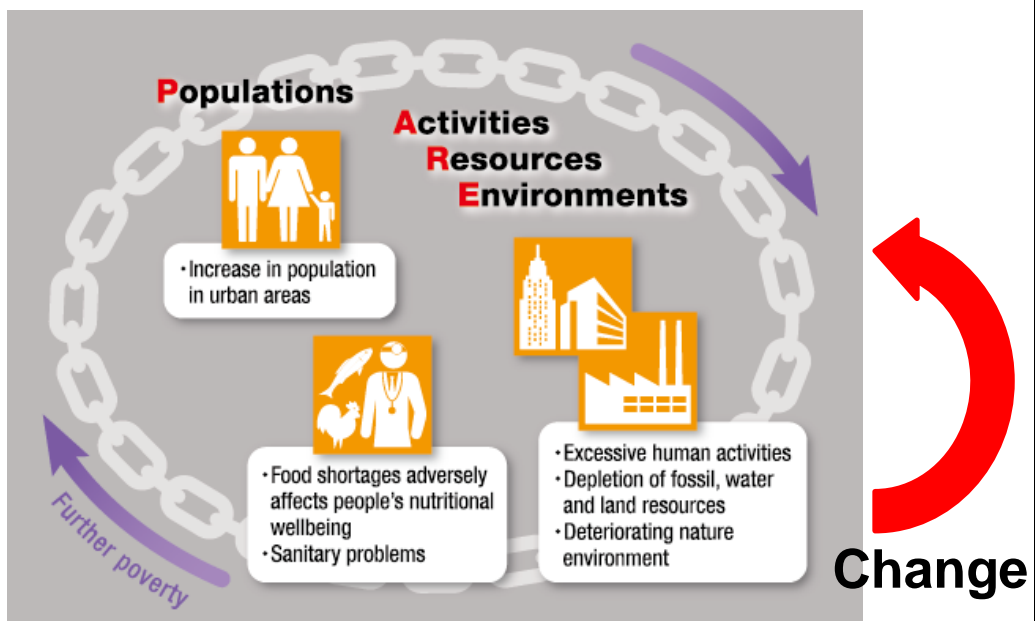
Due to the nature of the program, all educational and research activities are conducted in English.

We invite you to take advantages of this opportunity.

What is “PARE”?

Human **population** growth and excessive human **activities** cause unprecedented demands for natural **resources** (fossil, water, land resources, etc.), the intensification of agriculture, and the rapidly growing and globalizing economy and urbanization, which all contribute to the degradation of **environments** and climate change, which further lead to decreased natural resources and food shortages that adversely affect people’s nutritional well-being.

We call these linkages between **populations**, **activities**, **resources**, and **environments** “PARE”.



II. Application Guidelines (2020 Summer admission for Consortium Universities)

Course and Period

PARE Short Program Completion Plan:
August 26 – September 11, 2020

Number of Students

4 from each consortium university

Qualifications

1. Academic Background

Applicants must be:

- 1) Currently enrolled in a master-degree program; and
- 2) Motivated or willing and able to help solve PARE-related issues in Asia, or currently working on research course/project related to the PARE outlook and interested in obtaining field work experience and further expand their knowledge

2. English Ability

Applicants must possess a competent command of spoken and written English, which corresponds to:

- 1) A TOEIC score of at least 740,
- 2) TOEFL (ITP/iBT/CBT) scores of at least 550/80/213,
- 3) An IELTS score of at least 5.5,
- 4) Other English certification that is equal/similar to the above

Lectures and discussions are conducted in English, so proficiency in English is required.

Grade Point Average (GPA)

Applicants must have:

- 1) An outstanding academic record and demonstrated strong personal character at their home institution, and
- 2) A minimum GPA of 2.30 (based on the JASSO evaluation scale) from the previous academic year. If the previous year's GPA is not available, students can calculate their GPA from the previous semester.

Requirements for Completion:

PARE Short Program Completion Plan

PARE Core Subjects (Compulsory)		Credits
Introduction to PARE	Introduction to PARE I	1
	Introduction to PARE II	1
	Introduction to PARE III	1
	Introduction to PARE IV *	1
PARE Short Program (PARE Summer School)	Field Work Training I for PARE	2
	Seminar I for PARE	1

* Consortium university students are required to attend both "Introduction to PARE IV" and "PARE Summer School" in Hokkaido. Introduction to PARE I – III will be taught online.

* Consortium university students are required to study e-learning materials and submit necessary report(s) to lecturer(s) prior to PARE Summer School.

Application Procedure

1. Obtain the application forms from PARE Liaison Office of your university or download the application forms from the PARE Program website (<https://pare.oia.hokudai.ac.jp/>).
2. Submit the following documents to the PARE Central Office through the Liaison Office at your home university in consultation with your academic advisor/supervisor.
 - Form 1: Application Form for PARE Program
 - Form 2: Self-assessment sheet
 - Certification of English Proficiency test (if any)
 - Official Undergraduate and Graduate Transcript
 - Certificate of Enrollment issued by home institution or photocopy of student ID card
 - Photocopy of passport
 - Photo (3X4cm, Color & Clear, taken within latest six months)
3. Complete the Hokkaido Summer Institute (HSI) application on the HSI 2020 website (<https://hokkaidosummerinstitute.oia.hokudai.ac.jp/applications/>)
4. Upload the following documents to the HSI website:
 - Application Form
 - Photo (front-facing, upper body, no hat; 354 x 295 pixels)
 - Official certificate of student status (showing 1) the date of enrollment and 2) the duration of study or the expected graduation date at home institution)
 - Official academic transcript
 - Official English Proficiency test certificate
 - Copy of passport

Application Schedule

2020 Summer PARE Program Application deadline (to PARE Central Office)	2020 Hokkaido Summer Institute Application period (online application through HSI website)
February14, 2020	February 3-21, 2020

- ※ Application submission opens at 12:00 on the first day and closes at 17:00 on the last day of the application period. [Japan Standard Time].
- ※ Students from overseas institutions seeking accommodation for a week or more can apply for a place at a Hokkaido University (HU) student dormitory during the application period in February.

PLEASE NOTE:

The PARE Program Liaison Office at each consortium university will collect and submit all applications and necessary documents to the PARE Central Office within the above application period.

Please contact the PARE Program Liaison Office at your university to find out the internal submission deadline so that the deadline at the PARE Central Office can be met.

III. Summer 2020 PARE Program courses

◆ Introduction to PARE 2020

“Introduction to PARE” comprises four courses: I, II, III, and IV. Beginning in 2020, consortium university students are required to enroll in “Introduction to PARE IV” at Hokkaido University. Introduction to PARE I – III will be taught online.

The schedule (tentative) in 2020 is as follows:

	Introduction to PARE I
Theme	Human Activities and Environmental Burdens
Dates (time)	July 6, 8, 10, 13 and 15 (14:45-16:15)
Contents	Resource Management and Society (Professor Takashi INOUE, Research Faculty of Agriculture)
	Degradation of Freshwater Environment and Ecosystem Management (Associate Professor Junjiro NEGISHI, Faculty of Environmental Earth Science)
	Risk and Management of Chemical Substances (Professor Tatsufumi OKINO, Faculty of Environmental Earth Science)
	Pollution of Environmental Water Caused by Human Activity and Technologies for Purification of Polluted Water (Professor Yuichi KAMIYA, Faculty of Environmental Earth Science)
	Reconstruction of Contaminated Area after the Nuclear Power Plant Accident (Professor Takuro SHINANO, Research Faculty of Agriculture)
Syllabus	https://hokkaidosummerinstitute.oia.hokudai.ac.jp/courses/CourseDetail=G031

	Introduction to PARE II
Theme	Food, Environment, and Health
Dates (time)	July 6, 8, 10, 13 and 15 (16:30-18:00)
Contents	Animal Production: Benefits and Challenges Facing Human Society (Professor Yasuo KOBAYASHI, Research Faculty of Agriculture)
	Sustainable Fisheries and Aquaculture I : Resources and the Environment (Associate Professor John Richard BOWER, Faculty of Fisheries Sciences)
	Fisheries and Aquaculture II: Aquaculture (Professor Yasuaki TAKAGI, Faculty of Fisheries Sciences)
	Population, Food and Environment (Professor Takumi KONDO, Research Faculty of Agriculture)
	How to Stand for Neglected Disease (Professor Hideyuki MATSUURA, Research Faculty of Agriculture)
Syllabus	https://hokkaidosummerinstitute.oia.hokudai.ac.jp/courses/CourseDetail=G030

	Introduction to PARE III
Theme	Development and Management of Resources
Dates (time)	July 6, 10, 13, and 15 (10:30-12:00)
Contents	Water Resources and Water Related Disasters (Professor Norihiro IZUMI, Faculty of Engineering)
	Energy Consumption and Transportation System in Japan (Professor, Kunihiro KISHI, Faculty of Engineering)
	Groundwater and Geo-environment (Professor Toshifumi IGARASHI, Faculty of Engineering)
	Waste disposal engineering - How to improve open dumping site to sanitary landfill (Professor Yasumasa TOJO, Faculty of Engineering)
Syllabus	https://hokkaidosummerinstitute.oia.hokudai.ac.jp/courses/CourseDetail=G032

	Introduction to PARE IV
Theme	Sustainable Development/Resilience and Transformation for Sustainable Development
Dates	August 26, 27 and 28
Contents	Idea on Sustainability of Marine Ecosystem (Associate Professor Masahiko FUJII, Faculty of Environmental Earth Science)
	Conservation and Social Justice (Associate Professor Masatoshi SASAOKA, Faculty of Letters)
	Biodiversity and Ecosystem Services (Associate Professor Alice SHARP, Chiang Mai University)
	Communication for Development (Professor Mudasir, Gadjah Mada University)
	Policy and Economic Transformations for Sustainable Development (Professor Fumikazu UBUKATA, Okayama University)
	Introduction to Resilience (Associate Professor Henny OSBAHR, University of Reading)
Syllabus	https://hokkaidosummerinstitute.oia.hokudai.ac.jp/courses/CourseDetail=G060

◆ **PARE Short Program (PARE Summer School)**

	Summer School Field Work Training I for PARE & Seminar I for PARE
Theme	Sustainable Use and Management of Land, Water, Energy Resources and Food Security in PARE Chain
Dates	August 31 - September 11, 12 days (tentative)
Place	Hokkaido University, Japan
Participation fee (for field work)	JPY 40,000
Other cost required	Travel cost to/from host university Travel insurance fee
Syllabi	Field Work Training I for PARE: https://hokkaidosummerinstitute.oia.hokudai.ac.jp/courses/CourseDetail=G070
	Seminar I for PARE: https://hokkaidosummerinstitute.oia.hokudai.ac.jp/courses/CourseDetail=G071



IV. PARE Scholarship

PARE Scholarships (JPY 80,000) are available for students who enroll in and successfully complete “Introduction to PARE IV” and the PARE summer school.

Students receiving JPY80,000 or more per month from other scholarships during the short program at Hokkaido University are not eligible for the PARE Scholarship.

To receive the PARE Scholarship, you must agree to submit the following documents and reports to Hokkaido University after completing the program:

- 1) A Participation Report with photos (format will be provided upon completion of the program)
- 2) A copy of your transcript from your home university that documents transfer of credit



PARE Consortium

Chulalongkorn University (Thailand)

Hokkaido University (Japan)

Institut Pertanian Bogor (Indonesia)

Institut Teknologi Bandung (Indonesia)

Kasetsart University (Thailand)

Mahidol University (Thailand)

Thammasat University (Thailand)

Universitas Gadjah Mada (Indonesia)

