Hokkaido University Syllabus					
Course Title					
Inter-Graduate School Classes(Educational Program):One program for Global Goals					
Subtitle					
SDGs Field study: Spring School in ASEAN (PARE)					
Instructor (Institution)					
TAKEDA Ryo (Faculty of Engineering)					
Other Instructors (Institution)					
BOWER John Richard (Faculty of Fisheries Sciences) MATSUSHIMA Hajime (Research Faculty of Agriculture) TAKEDA Ryo (Faculty of Engineering) NEGISHI Junjiro (Faculty of Environmental Earth Science) MARIA STEFANIE DWIYANTI (Research Faculty of Agriculture) ARIMA Takahiko (Faculty of Engineering) TOMA Yo (Research Faculty of Agriculture)					
Course Type				Open To Other Faculties / Schools	OK
Year	2026	Semester	2nd Semester (Winter Term)	Course Number	101223
Type of Class	Experiment	Number of Credits	2	Year of Eligible Students	～
Eligible Department / Class				Other Information	
Numbering Code	IGS_IDS 5071				
Major Category Code	Major Category Title				
IGS_IDS	Inter-Graduate School Classes_Inter-Disciplinary Sciences				
Level Code	Level				
5	Specialized Subjects (basics) in graduate level (Master's Course and Professional Course), Inter-Graduate School Classes				
Middle Category Code	Middle Category Title				
0					
Small Category Code	Small Category Title				
7					
Language Type					
Classes are in English.					
Course list by the instructor with practical experiences					
EXCLUDED					

Key Words

environments， human activities, populations， resources, food, crop, animals, land, rivers, coasts, marine, soil, water, groundwater, geo-environment, water cycles, atmosphere, fossil fuel, metal, agriculture, forestry, fisheries, engineering,

ecosystems, overfishing, poverty, famine, food satiation, self-sufficiency, sustainability, climate change, genetics & breeding, seed production, chemical substances, pollution, risk management, pesticides, food additives, biorational pest control, sanitary insect control, zero-emission, internet, wireless network, green technology, low power consumption, internship

Course Objectives

The objective of this course is for students to develop practical skills to apply the knowledge and ability obtained through a series of courses on the
PARE issues (Population, Activities, Resources, and Environment) in specific research fields and/or in actual situations. Students will join projects as interns at universities, organizations, or private companies outside their home country to become researchers or technical experts engaged in the sustainable use of fossil fuels, metals, water, land, and marine resources.

Course Goals

By the end of this course, students will be able to develop practical skills to apply the knowledge and ability obtained through a series of courses on the PARE issues (“SDGs Introduction to PARE”, “SDGs Internship/Field Study: Summer School in Japan”, and “SDGs Internship/Field Study: Spring School in ASEAN”) in specific research fields and/or in actual situations.

Course Schedule

The course is conducted annually during February and/or March in Thailand or Indonesia. This academic year (February 2027) will be conducted in Mahidol Universitry, Thailand. The course length varies, but is generally about 2 weeks.The course comprises lectures and fieldwork training. Lecture topics cover sustainability, site information, resourcemanagement, field-survey techniques, and sampling methods. The fieldwork training includes surveying, sampling,measuring and data processing.

Homework

Students participate in fieldwork (data collection and analyses), group discussions, and group presentations. At the start of the course, students briefly introduce a river ecosystem in their home countries. At the end of the course, each student must submit a written report.

Grading System

Grades will be determined based on a comprehensive assessment of the following:
(1) Oral presentations: 50%
(2) A final report: 30%
(3) Class participation: 20%* Students must attend at least 80% of the course activities to receive credit.
*Plagiarism is taking credit for someone else’s work whether deliberately or unintentionally. This includes turning in all or part of a report written by someone else (e.g., a friend, an internet source) and claiming it as your own, and including information or ideas from research material without citing the source. Students who, for whatever reason, plagiarize any part of their report will receive a zero for the assignment.

Practical experience and utilization for classes

Condition of tasking the subject

Textbooks

No textbook required. Handouts will be distributed.

Reading List

Websites

Website of Laboratory

https://oggs.oia.hokudai.ac.jp/en/about/pare

Additional Information

Students will be assessed using a rubric assessment tool based on accomplishment criteria with levels of quality for expectations for their assignments and performance tasks.

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Class Method

face to face