



Advanced Doctoral Program in

# Global Resource Management

Doshisha University

# Human Resource Development and Educational Purposes

## What is GRM (Global Resource Management) Program?

GRM program is part of the Advanced Liberal Arts course group for all graduate students in both the Master's and Doctoral programs. The main feature of this program is that graduate students from diverse backgrounds and nationalities are studying together in English. There is also an environment where working professionals who are course registrants can study together. In this program, GRM defines "resources" broadly, encompassing not only natural resources but also human resources and social capital. The essence of GRM is to build and improve infrastructure as a common resource for sustainable development and peace through appropriate and fair management and operation of these "resources."

In today's uncertain world, you may envision a future with a positive perspective, but there is also a future that can only be seen by overcoming difficult circumstances. We can learn a lot from the difficulties that the world faces and that will in turn help transform our society.

This is a program that enables students to acquire basic knowledge beyond their own fields of specialization and "advanced literacy at the graduate level", in addition to the "wisdom" to think and overcome difficulties together with others.

## Developing Human Resources

The GRM program nurtures "Con Engineers and Innovators": who not only have the skills to apply science and make it useful in human life, but also have "Wisdom" that combines science and technology, as well as "Conscience" to support people. The technology here includes practical skills for building relationships and managing organizational projects.

## Curriculum Policy

GRM program is based on the principle of "designing your own study plan." The required courses include on-site practice. Through learning in the field, students will be exposed to 'local conditions and issues' and will work in groups to develop proposals for practical problem-solving. It is recommended to take the course as early as possible to gain the experience needed to recognize the knowledge to be acquired, the skills to be developed, and the necessary perspectives, and design your own learning plan for the future. In elective courses, students will learn a wide range of cross-field knowledge and perspectives necessary to solve problems, without distinction between the humanities and the sciences. Students can further develop their own strength or deepen their studies in their weak fields.

## Enrollment of GRM Program

### Eligibility to take GRM courses

The GRM courses are open to all students of graduate schools in the master's and doctoral programs. However, each graduate school has its own regulations on the handling of GRM course credits. Check the course registration guide of each graduate school for the maximum number of credits that can be earned in this program, and whether those credits will be counted to complete the master's/doctoral programs.



### Registration of GRM courses

You may register from a single course in this program. Register the courses on DUET during the designated course registration period each semester. On-site Group Work involves on-site practical training and is limited to approximately 10 participants. If there are many applicants, a screening process will be conducted. If you are unable to enroll due to not being selected, your registration for the On-site Group Work Introduction course, which is required to be taken concurrently, will also be canceled.



## Requirements for Completing GRM Program

### Program period

This program can be completed in one year, or it can also be completed over multiple years. Students may enroll the program in any year of the master's or doctoral program.

### Credit requirement

The number of credits required for completion of this course is 10, including 6 compulsory credits.

### Review for the completion of the program

A survey will be conducted among GRM course enrollees regarding their desire to complete the program. Completion will be determined for those who wish to complete it. Eligible course completers will be informed about the issuance of an open badge, which is a digital certificate of their learning history.



open badge



Elective/ Compulsory	Course Code	Class	Course Name	Instructor(s) Main Instructor	Credit	Semester	Campus
Compulsory	35650600	000	On-site Group Work Introduction	Yuko ONISHI	2	S Intensive	I
	35650601	000	On-site Group Work	Yuko ONISHI	2	S Intensive	I
	35650651	000	Seminar for Advanced Liberal Arts	Yuko ONISHI Masanori NAITO	2	F Intensive	I
【Elective】 2 courses required	35650611	000	Resource Management for Coexistence and Cultural Diversity	Eiji OYAMADA Minoru INABA Naoto NAGAOKA Jiro SENDA Takashi YAGI Shinichiro HAMA Yuko ONISHI	2	S	Real- time Online
	35650621	000	Mathematics and Physics as Liberal Arts	Camille-faith PASCUA ROMERO	2	S	Real- time Online
	35650622	000	Infrastructure Design for Human Communities	Camille-faith PASCUA ROMERO	2	F	Real- time Online
	35650623	000	Environmental Earth Science as Liberal Arts	Yuko ONISHI	2	F Intensive	I
	35650624	000	Global Resource Management: Interdisciplinary Approach 1 -Climate Change-	Yuko ONISHI	2	S Intensive	Real- time Online
	35650634	000	Global Resource Management: Interdisciplinary Approach 2 -Cocreation and Transdisciplinary-	Yuko ONISHI	2	F Intensive	Real- time Online
	35650625	000	Global Resource Management and Sustainable Development Goals 1	Yuko ONISHI	2	S	I
	35650635	000	Global Resource Management and Sustainable Development Goals 2	Yuko ONISHI	2	F	I
	35650631	000	Global Resource Management and International Relations	Seifudein ADEM	2	S	Real- time Online
	35650632	000	Research Methods of Social Sciences	Seifudein ADEM	2	F	Real- time Online
	35650633	000	Global Society in the Modern World	Eiji OYAMADA	2	F Intensive	I
	35650641	000	GRM Topics 1 -Natural Hazards and Disaster Management-	Anna MATSUKAWA	2	S Intensive	I
	35650642	000	GRM Topics 2 -Topics in Mathematics for Information and Data Sciences-	Takeshi TOKUYAMA	2	S Intensive	I
	35650643	000	Capacity Development for Coexistence and Cooperative Works	Mitsuaki UEDA	2	S Intensive	I
	35650644	000	Introductory Laboratory of Infrastructures	Yoki IKEDA	2	S	T

- GRM courses will be conducted in English, but considering the language proficiency of the students, some parts may be conducted in Japanese.
- Due to the balance of the school locations of the enrolled students, there may be a possibility of changing the campus.
- For courses conducted in classrooms other than intensive courses, please check the syllabus for the availability of on-demand classes (such as Do Week in the first week). If there are no on-demand classes, the course instructor will set a separate schedule.
- On-site Group Work must be taken concurrently with On-site Group Work Introduction.
- Only the course 'Introductory Laboratory of Infrastructures' is 4 hours per week. All other courses are 2 hours per week.

# GRM Program Features

## What is expected of the students?

-To be a person who can overcome difficulties together with diverse others-

### Acquire "Wisdom" and "Literacy" to overcome difficulties

We live in an uncertain, complex, and ambiguous society today, where the future is even more difficult to predict. In the GRM program, students acquire the "Wisdom" to overcome challenging situations through application of science and practical human skills, as well as "Literacy" to tackle difficulties with other people.



### Learn on the field and learn from the field

Since the establishment of the program in 2012, the GRM program has consistently emphasized field visits and exposure to local realities. Students experience the difficulties of the real world in the field and find their current abilities. From this experience, they will think deeply about what they should learn in the program and what abilities they should acquire in the future. The students learn both in the field and in the classroom. This has been the principle of the GRM program.



### Study in English with students of different backgrounds

In the GRM program, students of various nationalities study together. Although classes and student presentations are conducted in English, many students who are not fluent in English take the courses. Communication across languages and cultures might be difficult at first, but students improve their skills by challenging themselves repeatedly.

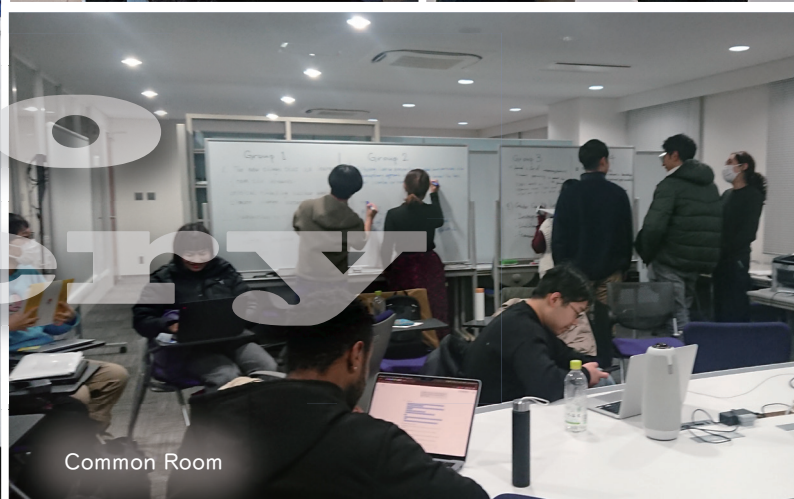
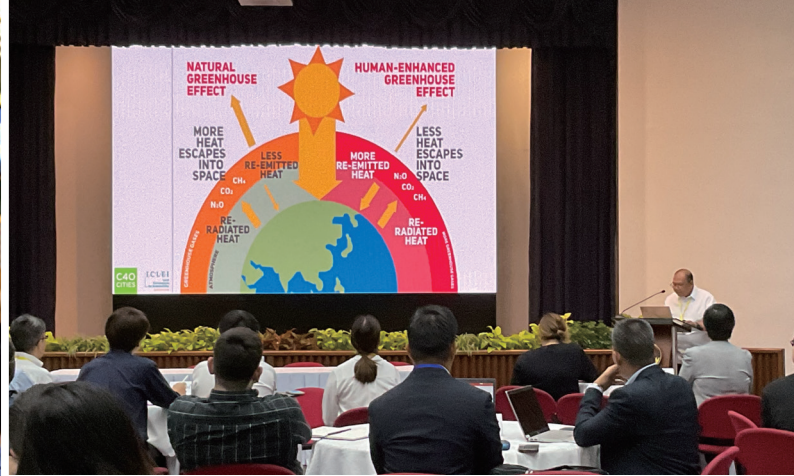


### Leads to post-graduate career development

Students will acquire fundamental skills as graduate students from a different perspective than the expertise they acquire at their graduate school. The knowledge and multifaceted viewpoints acquired in the GRM program will be very useful for your career development after completing the graduate school.









# Voice of Graduates' Voice

Q

What is(are) the reason(s) you decided to participate in the GRM program?

I was interested in the concept of Integration of humanities and science.

A

A

I wanted to broaden my horizons and knowledge beyond my specialty.

In addition, I wanted to have more opportunities to interact with people from various backgrounds.

I have been interested in the human resource management.

A

A

The GRM program was a perfect program for me to combine my background in science with the knowledge I acquired in humanities effectively.



Q

In what kind of situations did you find it positive and helpful to have learned from GRM program as you work for the current company?

A

When I face with difficulties, I became able to consider things from multiple angles.

A

It's useful in situations where effective communication is necessary. For example, when explaining technology, I can convey the information in an easy-to-understand way.

A

I engaged in several projects concerning Sustainable Development in developing countries and had various field trips to different parts of the world. This has helped me to enhance my task management and communication skills in my current projects.

A

I was able to learn about the SDGs and other issues that are being addressed on a global scale from early on.



## Messages for Juniors



You have nothing to lose. What are you waiting for?



If you are not sure about participating in GRM, I would recommend you to do so because you will gain a lot of experiences that are difficult to gain in a typical student life. There are many things that you can't understand until you actually try them, so I always try to do things when I am in doubt.



If you are looking for a highly engaging and multi-disciplinary research environment, I strongly suggest the GRM program! Even though it is challenging to put additional effort into earning extra credits and classes, what you gain will change your way of thinking for the rest of your life!



Entering a doctoral program itself is a decision that requires a great deal of determination, but the experience of pursuing your interests and questions and gaining expertise will be an advantage that you can use in a variety of situations afterwards. If you think the GRM program can help you do that, then take advantage of it.



Your hesitation is evidence that you want to participate in the GRM program.

# Message

GRM Program Coordinator  
**Masanori NAITO**

Professor of the Graduate School of Global Studies



This course is derived from "Global Resource Management"

which was adopted in the Leading Program for Doctoral Education (Leading Graduate School), under the category of interdisciplinary programs for a harmonious multicultural society in 2012.

The GRM program is a comprehensive doctoral program providing advanced education in the interdisciplinary field of global resource management through the integration of global studies and infrastructure science/resource and energy science. Based on its philosophy and outcomes of the program over the past 10 years, the program has been reorganized as the new "Global Resource Management Program," which constitutes the "Advanced Liberal Arts Course," a common graduate school education program starting in 2023.

To be widely active in society, it is necessary for graduate students to have literacy in a broad sense. This does not refer to the ability to read and write, but rather to have "the wisdom to be able to respond to unknown problems, difficulties, and crises by utilizing a variety of information based on acquired knowledge". Of course, there is no doubt that the expertise acquired through graduate school is important and fundamental. Nevertheless, it

is also true that society is changing to the extent that expertise alone is no longer sufficient.

This program emphasizes learning from perspectives beyond one's expertise. Besides acquiring basic knowledge outside of one's own field through classroom lectures, the program also values learning processes and exercises by visiting sites that are facing global issues such as disasters and natural resource shortages. The GRM students will grow from the experience of overcoming difficulties through co-learning with other students, and from the new insights and stimulation they gain from working together. This is the universal ability, or the literacy, needed to solve increasingly complex real-world problems.

This program, together with the "Next Environment" Collaborative Creation Course and the Comm 5.0 AI and Data Science Program, constitutes the "Advanced Liberal Arts Courses," a common graduate education program. The goal of the GRM Program is to produce human resources who can contribute to diverse fields of society, both in academia and non-academia, by equipping them with a broad range of literacy as graduate students and researchers.





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