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| Course Number | 09003 |
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2009 「The International Priority Graduate Programs (PGP)」

~Advanced Graduate Courses for International Students~

【1. Profile of the University】

|                                    |   |  |        |                                    |
|------------------------------------|---|--|--------|------------------------------------|
| ①University Department             | Graduate School of Global Environmental Studies, Kyoto University   |  |        |                                    |
| ②President                         | MATSUMOTO Hiroshi   |  |        |                                    |
| ③Address (Headquarters)            | Yoshida-honmachi Sakyo-ku Kyoto 606-8501 Japan  |  |        |                                    |
| ④Contact                           | Division  | Foreign Student Division                   |        |                                    |
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|                                    | TEL/FAX Number  | (TEL)+81-75-753-2489, (FAX)+81-75-753-2562 |        |                                    |
| ⑤Web-Address                       | <a href="http://www.ges.kyoto-u.ac.jp/cyp/modules/jst/english/">http://www.ges.kyoto-u.ac.jp/cyp/modules/jst/english/</a> |  |        |                                    |
| ⑥Enrollment (only Graduate School) | 1,194 (include MEXT's Sholarship Students : 484 )   |  |        |                                    |

【2. Outline of the Course】

|  |   |
|--|---|
| ①C o u r s e   | Environmental Management Leader (EML) Program   |
| ②D e g r e e   | Master course (2 years) and Doctor course (3 years)   |
| ③F o r m   | Kyoto University only   |
| ④Graduate Course, Department                                 | Department of Environmental Management,<br>Graduate School of Global Environmental Studies  |
|  | (address) Yoshida-honmachi, Sakyo-ku Kyoto 606-8501 Japan   |
| ⑤Collaboration (Universities, Graduate courses, Departments) | Kyoto University<br>Graduate School of Global Environmental Studies,<br>Department of Global Environmental Studies<br>Graduate School of Engineering<br>Department of Civil and Earth Resources Engineering<br>Department of Urban Management<br>Department of Urban and Environmental Engineering<br>Graduate School of Energy Science |
| ⑥Q u o t a   | 20 in total (12 DC students and 8 MC students)<br>(include MEXT's Scholarship Students: 4 (DC only)<br>(include Japanese: 10)   |
| ⑦Faculty members   | Total 89 (full time: 48, double appointment : 39, Part time : 2)  |
| ⑧Representative of the Course                                | Job Title: Dean of Graduate School of Global Environmental Studies  |
|  | Name: Professor KOBAYASHI Shintaro  |

【3. Contents of the Course】

**1. Outline**

The Graduate School of Global Environmental Studies (GSGES) was established in Kyoto University in April, 2002 for promoting global environmental education and research; and fostering human resources for environmental management. The school consists of a variety of disciplines such as human studies, economics, agriculture, engineering and science, and provides practical education on environmental issues by long-term internship programs and field training trips.

Based on the past achievement of international education and research activities, an educational project, “International center for human resource development in environmental management” (FY 2008-2012) was started with an aid of Special coordination funds for promoting science & technology by MEXT to foster young Japanese and international professionals who can deal with practical environmental problems in developing countries.

**2. International Center for Human Resource Development in Environmental Management**

The project aims to foster environmental management leaders who cope with complicated and broad global and regional environmental issues, by educating Japanese and Asian students in master’s and doctor’s program. The curriculum is made up of fundamental lectures on environmental theories, subjects on specialties, long-term internship programs and thesis research study on the topics related to environmental management.

The core institution in the Kyoto University’s main campus manages this project with its overseas field campuses and satellite offices (Fig.1). In the core institution, GSGES, as a program implementation organization, undertakes general administrative office duties such as admission of students, course registration, lectures and thesis research support. In addition, with the cooperation of field campuses and satellite offices, it manages recruitment & enrollment of foreign students, overseas internship, advertisement of the program, and joint research development. The field campuses were installed in Vietnam (Hanoi University of Technology in Hanoi, Hue University in Hue) and China (Shenzhen Campus of Tsinghua University at Shenzhen, having their own office & laboratory spaces and faculty members. They can work as platforms of overseas work for education and research in solving practical environmental issues. Moreover, satellite offices were placed in different countries to screen and recruit foreign students and provide related academic supports. Thus it is possible to recruit best students from various regions and to foster human resources who are able to undertake education and research flexibly and efficiently to meet the regional characteristics and the needs of society.

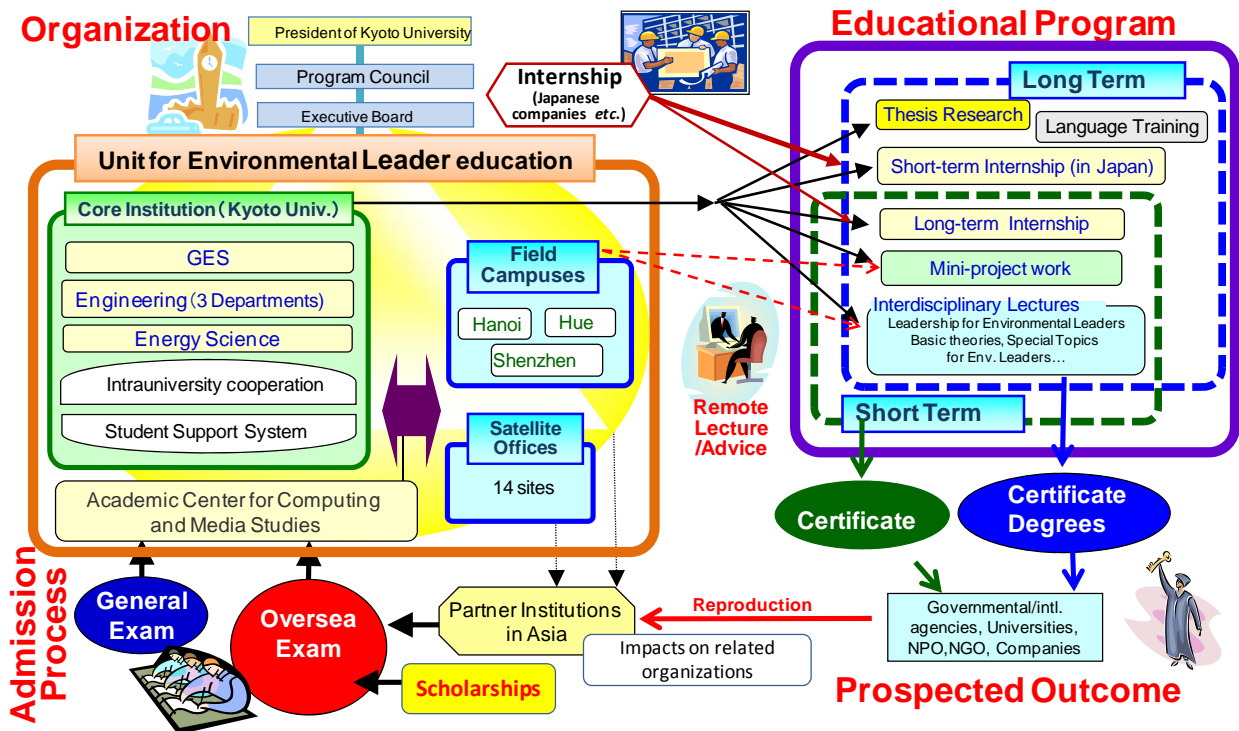


Fig.1: Outline of the program of “International Center for Human Resource Development in Environmental Management”

**3. Education of Environmental Management Leader (EML) Program**

3.1 Course Outline

Graduate students in three graduate schools (GS) of GSGES, GS of Engineering and GS of Energy Science who have completed the following course will be certified as the students of EML program. In each year, the program aims to foster 8 MC students and 12 DC students (foreign students are expected to be half of these numbers). English is used not only in all lectures, but also provided in daily supports for the students.

### 3.2 Course Description

#### (1) EML Basics (2 compulsory subjects, 1 credit each)

The subjects aim to teach students leadership by giving thinking ways to be environmental leaders who study environment and solve issues with practical examples. “Environmental Leadership A” consists of lectures on fundamental theories of international environment management, while “Environmental Leadership B” provides lectures by invited specialists who have a lot of practical experiences in international environmental issues.

#### (2) Basics in Environmental Studies (Compulsory: 2 subjects to be chosen from 6, 2 credits each)

At least two subjects are required from the following six subjects: “Global Environmental Law and Policy”, “Global Environmental Economics”, “Management of Global Resources and Ecosystems,” “Environmental Ethics and Environmental Education”, “Asian Environmental Engineering”, and “Basics on Environment and Energy”. In these lectures it is expected not only to acquire specialized knowledge but also to acquire both humanities and science subjects that are important for environmental leaders.

#### (3) Lectures in EML (elective)

In addition to various subjects of three GSs’ specialties, “International cooperation theory,” “multi-disciplinary mini project work” and other new courses are provided. The courses are flexibly changed for meeting the needs of each student, and contributed to fostering strategic human resources.

#### (4) Internship (Compulsory, total credit: 10)

There are two internship programs: “Internship A” and “Internship B”. “Internship A” is to study leading-edge technologies or policies for environmental protection / environmental technology transfer to overseas in relevant organization(s), requiring at least two weeks training at an organization in Japan. “Internship B” for acquiring Japan’s advanced technology. “Internship B” is to foster practical senses and ability of total environmental management from problem setting to policy perspective, requiring at least two months for MC and four months for DC. Thus the field campuses and satellite offices play important roles in the point of providing research themes and fields for the Internship B.

#### (5) Thesis Study

The thesis topic needs to match the overall objective and theme of the EML program. Therefore the internship is positioned as the preparatory period (of acquiring methodology, conducting preliminary research and experiments) for students, and the supervisors at internship organizations review and provide advices for completing thesis.

### 3.3 Completion of Study

Twenty-two credits are required for master’s students and 18 credits for doctoral students from the above-mentioned subjects in addition to the completion of MC or DC in each graduate school. **Fig. 2** is an example of doctor’s program for foreign students for October entry.

### 4. Selection Process

Four MEXT’s scholarships in each year are provided to international students in doctor course students. The scholarship application will be announced through a web-site, field campuses and satellite offices. The applicants will have a primary selection through their documents such as their CVs and academic records in graduate and undergraduate studies. The successful applicants will have interview (oral examination) at suitable places such as field campuses, and the final candidates for the scholarships are determined.

The other students can enter to the EML course by having the regular entrance examinations in GSGES, GS of Engineering and GS of Energy Science.

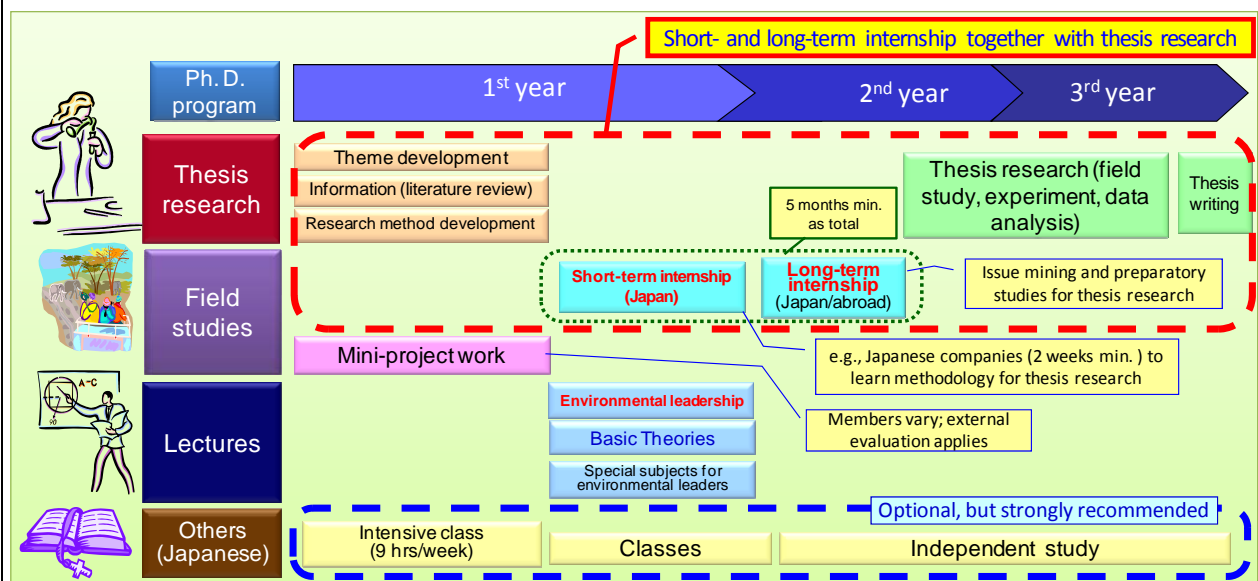


Fig.2: Outline of program of an international student joining the doctor’s program in October entry