

Course Number	06077
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2006 「The International Priority Graduate Programs (PGP)」

~Advanced Graduate Courses for International Students~

【1. Profile of the University】

①University Department	Saga University, Graduate School of Science and Technology		
②President	Dr. HASEGAWA Akira		
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⑤Web-Address	http://www.sao.saga-u.ac.jp/New_wwwout/Daigakuin/Tokubetu_Corse/OPENING.HTM		
⑥Enrollment (only GraduateSchool)	152 (include MEXT's Sholorship Students: 60)		

【2. Outline of the Course】

①Course	Global Environmental Science and Technology
②Degree	Master degree, Doctor degree
③Graduate Course, Department	Graduate School of Science and Engineering, Department of Chemistry and Applied Chemistry
	(Address) 1, Honjo-machi, Saga-city, 840-8502, Japan
④Collaboration (Universities, Graduate courses, Departments)	<p>Master course, Graduate School of Science and Engineering,: Department of Chemistry and Applied Chemistry, Department of Mechanical Engineering, Department of Electrical and Electronic Engineering, Department of Civil Engineering, Department of Ecomaterial Science and Engineering, Department of Advanced Systems Control Engineering,</p> <p>Graduate School of Agriculture: Department of Agricultural Sciences, Department of Applied Biological Sciences</p> <p>Doctor Course, Graduate School of Science and Engineering Department of Energy and Materials Science, Department of Engineering Systems and Technology, Department of Advanced Systems Control Engineering</p>
⑤Quota	<p>Master course 5 (include MEXT's Schlorship Students: 2) (include Japanese : 0)</p> <p>Doctor course 6 (include MEXT's Schlorship Students: 4) (include Japanese : 0)</p>
⑥Faculties	175 (Full-time(only for this course):160 Full-time(at the department offering this course):15 Parttime: 0)
⑦Representative of the Course	Job Title Dean of Graduate School of Science and Engineering, Professor
	Name Dr. NAKASHIMA Akira

【3. Contents of the Course】

[Aim of the course]

The 20th century was a century of great advancing in sciences and technologies, especially, in the second half of the century, there was a rapid development in information and communication technologies and transportation system in a global scale. The science and technology developments improved the quality of our life a lot. But at the same time, these developments also brought the problems, such as disputes between races as well as between nations, and global environmental problems. As for 21st century, we consider it should be a century that the benefits of science and technology development to be shared more equally by all human beings, further development in globalization, and balancing the development and natural environment prevention to form a more harmony and more mature society.

In 1995, Saga University established the International Postgraduate Special Joint Program, in the area of Environmental Earth Sciences and Technologies, which merged science, engineering and agriculture together to solve environmental problems. This special joint program attracted a large number of foreign students.

Further, considering that the environment problems can't be solved by science and technology alone, from April 2005, new teaching staffs from the Faculty of Economy and the Faculty of Culture and Education have been added into this special joint program.

Following this development, the doctoral course of this new international program includes teaching members from the Faculty of Economy and the Faculty of Culture and Education, which forms a new special program combining science, technology and culture which is a very rare case in Japan.

[Features]

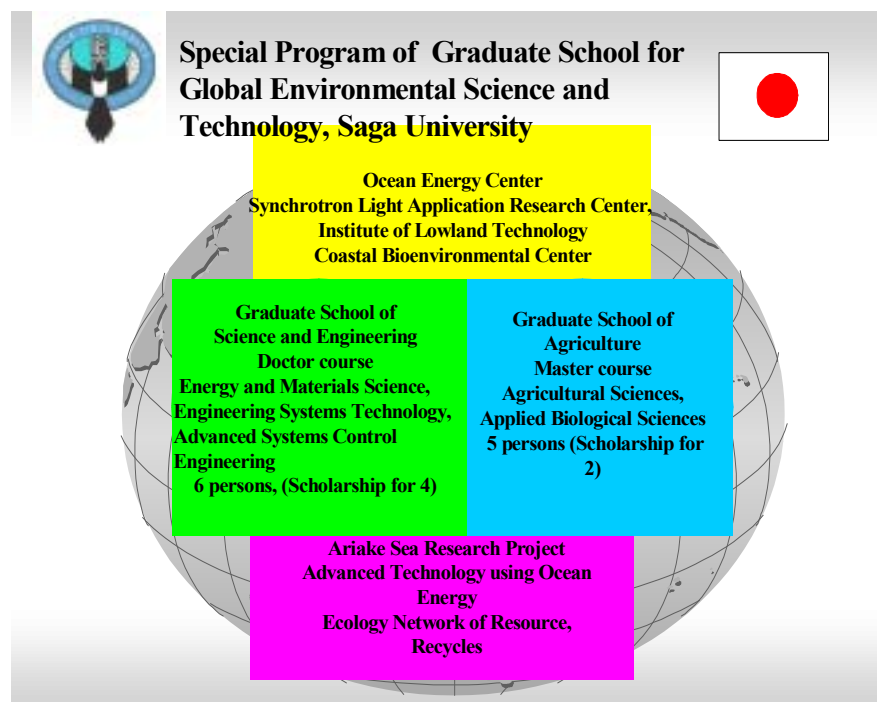
The present course offers the lectures and research in English regarding advanced "Global Environmental Science and Technology" for foreign students.

(1) Those who will have completed the course will achieve Master degree and/or Doctor degree and are expected to perform extracurricular activities in their home countries, or other foreign countries as well as in Japan. The new semester starts on October.

(2) High caliber scientists or specialists will be flourished to deal with the global environmental problem from a broad point of view through an interdisciplinary education of science, engineering, agriculture and culture.

(3) Students of this new special program can join the following three 21st century Central Of Excellence (COE) programs in Saga University founded by the Ministry of Education, Culture, Sports, Science and Technology,

Japan. A research COE program in the Graduate School of Science and Technology named "Advanced technology of using ocean energy" and an education COE program of "Saga environment forum with citizen participation". One local community COE program in the Graduate School of Agriculture called "Network of resource



recycles considering ecology”.

- (4) The students also can join and study global environmental science and technology under the collaboration with staffs of research centers like “Synchrotron Light Application Research Center”, “Institute of Lowland Technology”, “Coastal Bioenvironmental Center”, and Ariake Sea Research Project.
- (5) Above mentioned COE programs and research centers give an honor to Saga University be a favorable place for foreign students to study earth environmental science and technology.
- (6) Overall development of earth environmental science can be achieved by combination of research in science and technology centered by the staffs in science and engineering, earth environment and ecology centered by the staffs in agriculture, and environment policy centered by the staffs in economy, culture and education. This kind of teaching and research activities provide worldwide contribution for the development of environmental science and policy, which is believed an important international role of Japan.

[Teaching and Research Instruction System]

- (1) All classes and instructions will be given in English and Japanese students also can take the classes with the foreign students.
- (2) Doctor course students are required to take a general seminar to present subjects other than their own research projects in front of other students and professors that helps the students to get knowledge more about global environmental sciences and technologies.
- (3) The students of the program are required to take subjects as follows:
Master course: Chose more than 4 subjects from given options prepared for this program; two subjects other than their own major subjects; remaining subjects from their own major subjects; special research project. The required credits are 30 units.
Doctor course: Special subject for Global Environmental Science and Technology; General Seminar; Research Project. After submission of doctor thesis to the concern professor and qualifying the examination of doctor thesis, the student will be rewarded Ph.D. degree.

[Types of degree]

For master program: three types of degrees, Master of Engineering, Master of Science and Master of Agriculture

For doctoral program: three types of degrees, Doctor of Engineering, Doctor of Science, and Doctor of Art and Science (including the students in culture area).

[Method of student enrollment]

- (1) Evaluation of the documents of applicants and interview by staffs of Saga University at abroad or in Japan.
- (2) In principle, the priority will be given to students of those foreign universities which have academic exchange agreement with Saga University.
- (3) Applicants from each academic division will be scrutinized and recommended to the Executive Committee of special program. The Executive Committee will decide the final candidates.

[Others]

- (1) NPO "International boardinghouse" offers 54 rooms for international students at a reasonable cost with a monthly rent of ¥10,000 - 20,000 without advanced security money. The International House of Saga University can accommodate 50 people. Therefore, the accommodation conditions for foreign students in Saga have been improved.
- (2) International Student Center, Saga University, offers several Japanese language courses for foreign students, which help them to learn basic Japanese for their daily life.