

Course Number	06031
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2006 「The International Priority Graduate Programs (PGP)」

～Advanced Graduate Courses for International Students～

【1. Profile of the University】

①University Department	Nagoya University, The Graduate School of Engineering		
②President	HIRANO Shin-ichi		
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⑥Enrollment (only Graduate School)	902 (include MEXT's Scholarship Students: 272)		

【2. Outline of the Course】

①Course	THE FOREFRONT STUDIES PROGRAM FOR CIVIL ENGINEERING
②Degree	Doctor of Engineering (3 years)
③Graduate Course, Department	Department of Civil Engineering, The Graduate School of Engineering
	(Address) Furo-cho, Chikusa-ku, Nagoya 464-8603 JAPAN
④Collaboration (Universities, Graduate courses, Departments)	Graduate School of Environmental Studies Department of Environmental Engineering and Architecture Environmental Materials and Infrastructure Course
⑤Quota	7 (include MEXT's Scholarship Students: 7) (include Japanese : 0)
⑥Faculties	55 (Full-time(only for this course):33 Full-time(at the department offering this course):4 Part time:18)
⑦Representative of the Course	Job Title Professor, Graduate School of Engineering
	Name SAWAKI Nobuhiko

【3. Contents of the Course】

1. Prospectus

In developing countries, for example, in the South-East Asian area, the demands for vibrant economic growth and also full establishment and enrichment of social capital, which is an infrastructure for securing social welfare, are extremely important issues. Although some of these countries have recently been undergoing remarkable economic growth, the excessive speed at which social capital is being built is causing many problems. For example, the growth of social capital is increasing the damage potential of natural disasters and causing other problems such as widening regional disparities.

To build cooperative relationships with these countries, we must train people in civil engineering fields that cover the investigation, planning, design, construction, maintenance, and management of social infrastructures.

It will take a lot of time, human resources, and international support to establish and enrich social capital in developing countries. To meet these needs, our commitments to the establishment of this program are as follows:

- 1) we will cultivate and produce graduates with a broad and solid state-of-the-art civil engineering knowledge
- 2) we will establish an international technical support system through relationships between Japan and other countries centered at the graduates' home locations
- 3) we will continue to offer these services in the future.

In the program, foreign students are trained completely in English,

2. Introducing our program

Our program trains foreign students so they can acquire advanced knowledge and focuses on producing researchers and engineers who can become leaders in their countries after completing the program. Each laboratory in our department has an average of seven undergraduate or graduate students, which is one of the lowest student-faculty ratios, and as a result we can provide sophisticated, in-depth training courses.

This program is also effective as a human resource development program for expanding the international network of our students. Over the course of 20 years, our program has produced many promising graduates. The growing number of graduates from our program is a testament to its merit, and we regard them as a precious treasure.

As highly skilled engineers, students should become familiar with the variety and complexity of new technologies and are encouraged to adopt a global viewpoint that goes beyond the boundaries of their own countries. Therefore, in addition to research training, lectures covering broad range engineering topics are provided in our course. Furthermore, by taking the lectures provided in Graduate School of Environmental Studies in Nagoya University, the students can develop an understanding of their field from an environmental standpoint. As mentioned previously, all of the courses are conducted in English.

3. Education and training system

The foreign students are assigned to a laboratory immediately upon entering the program and then start research activities. The progress of the students' research activities is checked several times each year. We do our utmost to ensure that the students earn a degree in their field within three years. Figure 1. shows the framework of the program.

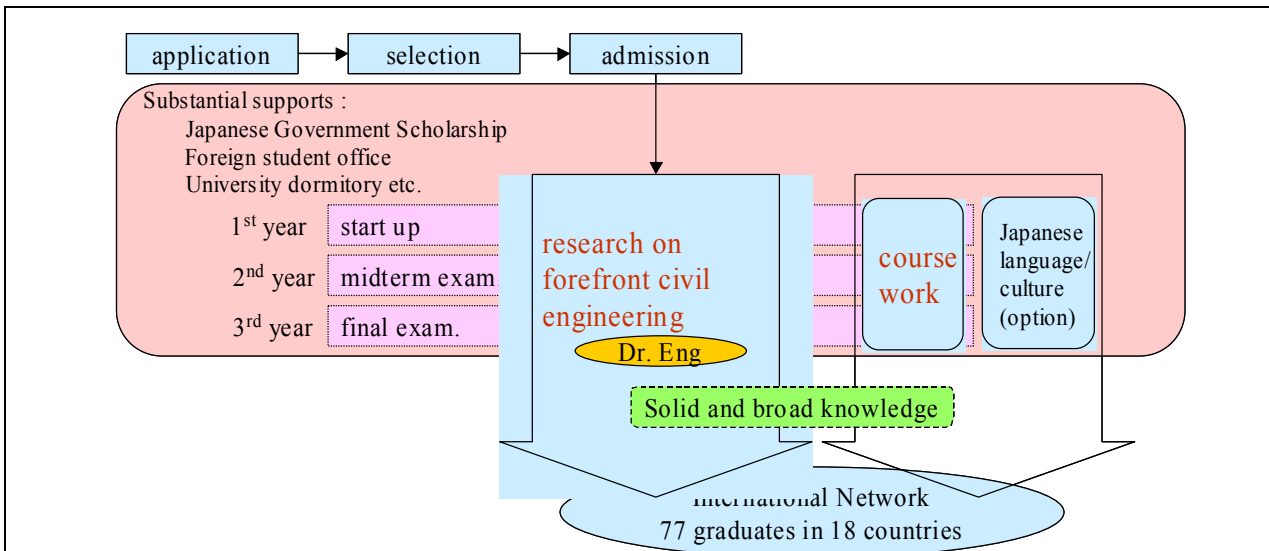


Fig.1. Framework of THE FOREFRONT STUDIES PROGRAM FOR CIVIL ENGINEERING

4. Student support

Among the universities in Japan, Nagoya University accepts one of the largest numbers of foreign students. We provide various support services in the University or in the Graduate School of Engineering, such as the Education Center for International Students (ECIS), International Exchange Office, etc. Also, we have several students' dormitories so students can inhabit as soon as they arrive.

5. Language used in the courses

Research guidance, paper review, and all other educational procedures are done in English. However, if students want to study Japanese so they can use it in daily life and learn about Japanese culture, we help them to do so in a way that does not interfere with their main studies. At Nagoya University, the Japanese language education program is held at the ECIS.

6. Selection

The faculty selects students based on their application forms. Next, the selected candidates are contacted via email and given an email-based test. We then study the test results to judge the candidates' English ability, ability to express themselves, and other points and finally make our recommendations.

7. Students' careers after completing the program and the follow-up system

Usually, after completing the program, graduates return to their home country and enter a college or university or join a company or public office. Many of them are now playing important roles as leaders in their countries. We will support the creation of an institution for promoting cooperative research between graduates and teachers and exchanging information using the Internet. Also, we will make arrangements so that graduates of the program who are working in the real world can periodically hold seminars. Through these activities, we will deepen the international relationships between the teachers, students, and graduates of this program and also Japanese students and make preparations for new types of international academic cooperation.