

Course Number	06068
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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 Institute of Technology, Graduate School of Engineering,			
②President	MATSUI Nobuyuki			
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⑤Web-Addresses	http://www.nitech.ac.jp			
⑥Enrollment (only Graduate School)	123 students (include MEXT's Scholarship Students: 27 )			

【2. Outline of the Course】

①Course	International Graduate Programs for Advanced Research
②Degree	Master's Programs, Doctor's Programs (2years + 3years)
③Graduate Course, Department	Graduate School of Engineering, Materials Engineering
	(Address) 〒466-8555 Gokiso-cho, Showa-ku, Nagoya
④Collaboration (Universities, Graduate courses, Departments)	Graduate School of Engineering, Civil and Environmental Engineering
⑤Quota	Master's Programs 12 students (include MEXT's Scholarship Students: 3) (include Japanese : 6 ) Doctor's Programs 12 students (include MEXT's Scholarship Students: 2) (include Japanese : 6 )
⑥Faculties	110 staff (Full-time(only for this course):110 Full-time(at the department offering this course):0 Parttime:0 )
⑦Representative of the Course	Job Title President
	Name MATSUI Nobuyuki

### 【3. Contents of the Course】

#### 1. Outline of International Graduate Programs

International Graduate Programs aim at cultivating excellent researchers who are capable of establishing international careers, by educating small number of brilliant international students and Japanese students altogether under the multidisciplinary supervision. Therefore, the student who enrolls in this program will be expected to become a researcher.

There are 2 major departments: Materials Science and Engineering, which mainly focuses on Inorganic Materials and Life Function, and Socio Engineering, which mainly focuses on Civil Engineering and Environmental Engineering and Disaster Prevention.

#### 2. Characteristics of International Graduate Programs

##### (1) Special program for cultivating excellent researchers

##### a) Integrated course design unifying Master's Degree Program and Doctoral Degree Program

With the purpose of cultivating excellent researchers, the Master's Degree Program and the Doctoral Degree Program are unified, which means that consistent education can be conducted. Accepting only the excellent students is premised, and thus many of them are expected to finish the course of study in four years.

##### b) Small-group instruction together with Japanese students

On the premise that most of the student is expected to pursue the Doctoral Degree Program, the number of international students as well as Japanese students which NIT accepts is limited to 3 or so each. Educating international students and Japanese students in the same program encourages them in mutual exchanges.

##### c) Lectures and Research Guidance in English

All the lectures and research guidance for international students are basically provided in English. However, the opportunities to learn Japanese are also given to international students in preparation for living in their daily lives in Japan.

##### (2) Well-designed coursework

Coursework is carefully well-designed so that students can build their ability coherently. Furthermore, we pay adequate attention, not only to cultivate academic ability of students, but also to cultivate the ability of finding resolutions to real problems as well as the awareness of being responsible for contribution to human society and harmony with natural environment.

##### a) 1st year of Master's Degree Program:

##### **Taking a wide range of courses to cultivate extensive basic knowledge**

In the 1st year of Master's Degree Program, the student studies mainly by taking lectures. The student should select one special field as his/her own major. However he/she has to take some courses from other fields of study and also has to take some courses from common subjects in order to develop social awareness.

##### b) 2nd year of Master's Degree Program:

##### **Basic training to become a researcher and preparing a master's degree thesis**

In the 2nd year of Master's Degree Program, the student develops fundamental capability required for a researcher mainly by discussing in seminars. The student also takes some academic courses dealing with the latest trends of his/her field of study and

interdisciplinary fields, and prepares a master's degree thesis after presenting his/her research at an international conference.

**c) 1st ~ 2nd year of Doctoral Degree Program:**

**Fostering skills of independent research activities by internship and other programs**

In the 1st and the 2nd year of Doctoral Degree Program, the student should join internship at other universities, institutes or companies for several months. This aims to train student's ability necessary for conducting his/her research independently. After the internship, the student takes up research for his/her thesis. The student also can work as TA and RA.

**d) 3rd year of Doctoral Degree Program: Prepare for a doctoral degree thesis**

In the 3rd year of Doctoral Degree Program, the student completes his/her doctoral degree thesis. Before submitting the thesis, the student should present his/her research at international conferences and should publish his/her research in international journals. In addition, the superexcellent student is allowed to complete his study in two years.

**3. Admissions**

Recruiting students for the International Graduate Programs is conducted in English on the NIT official website. Students in any countries can apply for the programs. The matriculation to the programs is either in October or in April.