

International Graduate Course for Continuing Professional Development

1. Overview

Japan's international obligations include supporting the industrialization of developing countries. In particular, the cultivation of human resources to form the core of advancing industrialization has shown to be exceptionally effective in facilitating autonomous, sustainable, and long-term development in these countries. Nagaoka University of Technology (NUT) has, thus far, accepted working professionals from various countries in Asia and Latin America as international students.

In recent years, the rapid advancement of manufacturing technologies in various developing countries (especially in Asia and Latin America) has necessitated the support of engineers and researchers with the ability to conduct and instruct at high levels of research and development. Accordingly, there is a demand for universities in these countries to produce leaders in education and research that can, in turn, develop the human resources required by local industries.

In addition, Japanese-affiliated companies looking to expand their global presence require highly trained individuals to assume a central role in research and manufacturing centers around the world. In response to these needs, the objective of the International Graduate Course for Continuing Professional Development is to train working professionals from all developing countries to become leaders that can support the rapid advancement of technology and contribute to the development of their home countries' industries.

This course is characterized by the following: (1) a focus on working engineers and researchers from developing countries, (2) a curriculum designed to develop practical research capabilities in course graduates that enable them to assume a central role in on-site research and manufacturing centers, (3) education and research guidance conducted in English, (4) opportunities to experience Japan's technical innovation through internships, and (5) opportunities to learn Japanese language (including Business Japanese) and gain a familiarity with Japanese Affairs.

It is hoped that students enrolled in this course will be able to experience Japan's technical innovation, and that course graduates will play active leadership roles as pragmatic engineers and researchers that contribute to the development of industries in their respective home countries.

2. Course Outline

(1) Master's Program

① Subject Requirements

Students of this course must earn 4 or more credits from course-recommended elective-compulsory subjects as stated below (See Attached Table 1).

◆Course-Recommended Elective-Compulsory Subjects

Internship for CPD Course Students	2 credits
Japanese Industrial Development Experience	2 credits
International Relations	2 credits
Technology and Public Policy	2 credits
Gigaku Innovation and Creativity	2 credits

**In cases where Common subjects (including those listed above) have already been taken, students may include up to 6 credits from the Common subjects required by the relevant program.*

**In addition to the subjects listed above, students may also take “Basic Japanese Language Course 1” and “Introduction to Business Japanese Language” as extracurricular subjects. However, in order to take the “Internship for CPD Course Students”, students must have, in principle, completed “Basic Japanese Language Course 1” and “Introduction to Business Japanese Language” before registering for the internship.*

② Course Completion

In order to complete the course, students must earn 4 or more credits from course-recommended elective-compulsory subjects. Students who fulfill the prerequisites for completing the course and the master’s program will be awarded a Certificate of completion of the International Graduate Course for Continuing Professional Development in addition to the master’s degree.

In order to complete the master’s program, students admitted to this course must complete the course.

(2) Doctoral Program

① Subject Requirements

Students enrolled in the International Graduate Course for Continuing Professional Development are required to take the following course-compulsory subject (See Attached Table 2).

◆Course-Compulsory Subject

Interdisciplinary Joint Project Study.....2 credits

This is a course-compulsory subject, and the credits earned from this subject will not count toward the required credits for completing the doctoral program.

**In addition to the subjects listed above, students may also take “Basic Japanese Language Course I” and “Introduction to Business Japanese Language” as extracurricular subjects.*

②Course Completion

In order to complete the course, students must earn the credits of a course-compulsory subject, “Interdisciplinary Joint Project Study”. Students who fulfill the prerequisites for completing the course and the doctoral program will be awarded a Certificate of completion of the International Graduate Course for Continuing Professional Development in addition to the doctoral degree.

In order to complete the doctoral program, students admitted to this course must complete the course.

(3) Student Admissions

Students will be admitted to this course if they pass the selection entrance examination for the International Graduate Course for Continuing Professional Development and have been admitted to either the master’s or doctoral programs (including students who have completed the master’s program under this course and advanced to the doctoral program) at the Graduate School of Engineering, NUT.

International Graduate Course for Continuing Professional Development

Attached Table 1

Master's Program

Eligible Programs	Subject Classification	Subject Name	Credits	1st Year to 2nd Year			Lecturer-in-Charge	Notes
				Term				
				1	2	3		
All Programs	Elective-Compulsory (4 Credits)	Internship for CPD Course Students	[2]	[2]			Iwahashi, Staff	☆
		Japanese Industrial Development Experience	2		2		Mikami & Aruna	S ☆ K K(N) A
		International Relations	2		2		※Murakami	J A
		Technology and Public Policy	2		2		Nakamura (K)	☆ S
		Gigaku Innovation and Creativity	2	2			Iwahashi & Miyashita (T)	☆ S

Note 1: In the "Lecturer-in-Charge" column, ※ indicates an adjunct lecturer

Note 2: [2] indicates credits that do not count toward program completion

Attached Table 2

Doctoral Program

Eligible Programs	Subject Classification	Subject Name	Credits	1st Year to 2nd Year			Lecturer-in-Charge	Notes
				Term				
				1	2	3		
All programs	Compulsory	Interdisciplinary Joint Project Study	[2]		[2]		Iwahashi, Staff	Subject is offered from the 1st to 2nd years, but students are encouraged to take the subject in the 1st year.

Note 1: [2] indicates credits that do not count toward program completion

【Symbols in the Notes Column】

☆ : Conducted in English

K : Industry-Associated Subject for Teacher's License Certification

K(N) : Industry-Associated Subject for Teacher's License Certification (Only in the Department of Nuclear System Safety Engineering)

J : Information-Associated Subject for Teacher's License Certification

A : Can be conducted in English for International Graduate Course for Continuing Professional Development students

S : International Graduate Course for Continuing Professional Development students are strong encouraged to take this subject