

「The International Priority Graduate Programs (PGP)」

～Advanced Graduate Courses for International Students～

Course guide

【1. Outline of the Course】

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| ①C o u r s e | Graduate Program on Science and Engineering for Sustainable Development : Environmental/Energy Science and Engineering (International Interactive Educational Course for Sustainable Development) |
| ②D e g r e e | Doctoral Course (3Years) |
| ③Graduate Course | Graduate School of Natural Science and Technology |
| | (Address) Kakuma-machi Kanazawa ISHIKAWA |
| ④Division | Division of Mathematical and Physical Sciences, Division of Material Chemistry, Division of Mechanical Science and Engineering, Division of Frontier Engineering Division of Electrical, Information and Communication Engineering Division of Geosciences and Civil Engineering Division of Biological Science and Technology |

【2. Contents of the Course】

I. Aim

Graduate School of Natural Science and Technology, Kanazawa University set up “Graduate Program on Science and Engineering for Sustainable Development : Environmental/Energy Science and Engineering (International Interactive Educational Course for Sustainable Development) ” (hereinafter called "II-ESD Course") from April 2015. An aim of II-ESD Course is to educate students in the doctor course to have sophisticated abilities of international communications and collaborations. This program makes a point of interactive and practical trainings, including communications between international students and Japanese students, participating international projects and international seminars, and writing and presenting research achievements at international conference.

II. Curriculum

A flowchart from the entrance to the graduation is shown in the next page.

1) Quota: Monbukagakusho scholarship students: 5 (Privately financed international students: 10)

2) Screening: The Monbukagakusho scholarship students are all screened, and the selected students are accepted as students in II-ESD Course. Privately financed international students are screened and accepted as regular students. After joining the graduate school of Kanazawa university, the students can apply to II-ESD Course (the Graduate Program on Science and Engineering for Sustainable Development : Environmental/Energy Science and Engineering). The applicants are screened, and the selected students are included in II-ESD Course. International students can get necessary information about Japan and Kanazawa university through the university website.

3) Special Curriculum of II-ESD Course (For now, as follows; There might be a change.)

- *Advanced Scientific and Engineering English (1st year):* Practical education is offered aiming to promote abilities of taking courses in English, writing papers and presenting research achievements in English, and debating with foreigners.

- *International Communication Exercise (2nd and 3rd years):* This course consists of symposiums, where students present their research results, meetings, where students discuss about some topics, hearing some tutorial lectures. Official language is English. This course is open to other students, professors, visiting researchers and international students enrolled in the other programs.

- *International Project Exercise (3rd years):* This course is based on participating international schools and seminars, and international cooperative research groups. Through these practical experiences, highly sophisticated international human resources are grown up.

4) Official Language: English

Courses, which II-ESD Course students take, are provided in English. Student research projects are directed and advised by professors in English.

5) Requirements for Completing II-ESD Course

- Get credits by taking courses in II-ESD and Regular Courses.
- Present technical papers at international conferences.
- Publish technical papers, including a main part of a doctor thesis, in a journal edited in English.
- Present a doctor thesis in English.
- Pass an examination of a doctor thesis.
- High language ability

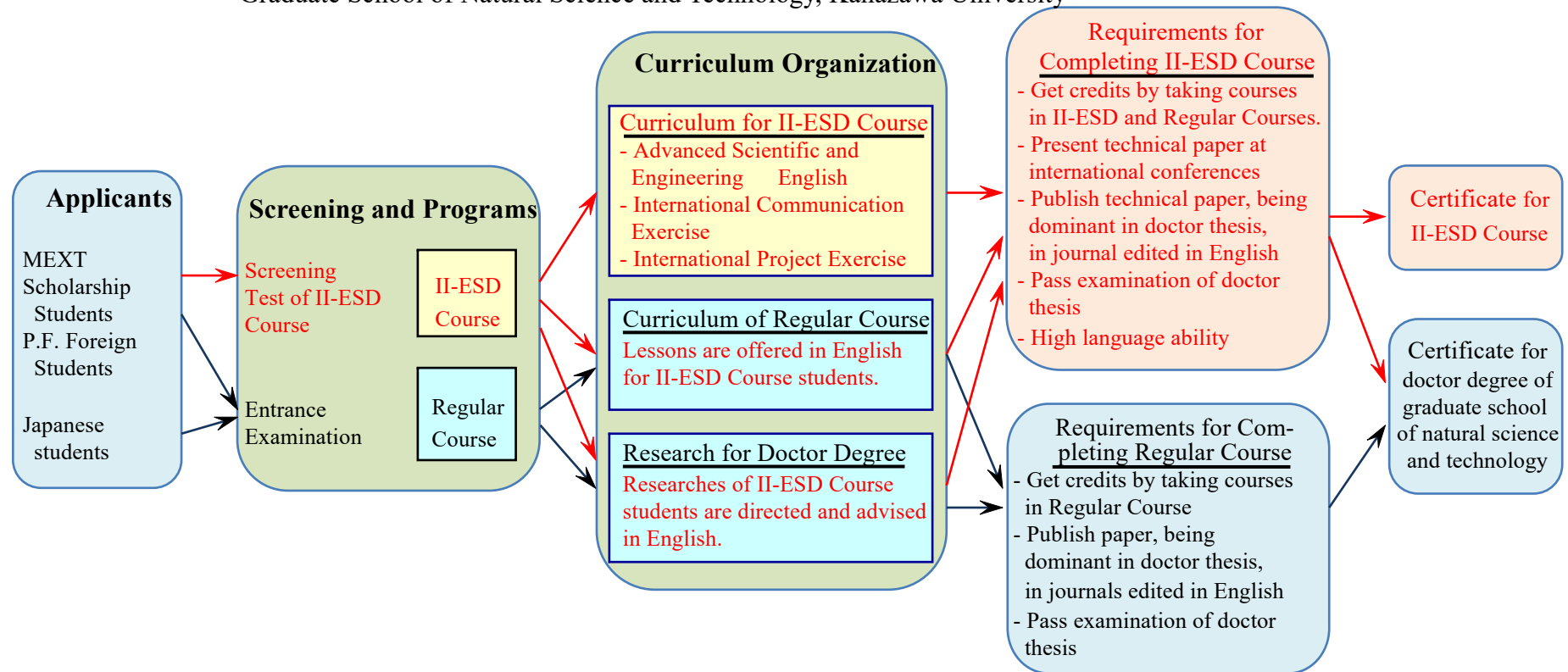
6) Certificate of II-ESD Course:

II-ESD Course students, who satisfy the requirements, receive a certificate of II-ESD Course, besides a certificate of the doctor degree.

III. Advising Students Research Projects and Examination of Doctor Thesis

- Before international students enter the doctor courses, they can receive several supports through the internet.
- One main adviser and two advisers direct and advise student research project.
- A doctor thesis is fairly and strictly examined by a committee consists of five professors.

Fig. 1 Summary of " Graduate Program on Science and Engineering for Sustainable Development: Environmental/Energy Science and Engineering (International Interactive Educational Course for Sustainable Development(II-ESD Course))"
Graduate School of Natural Science and Technology, Kanazawa University



(Note) Red characters, red lines and yellow flames are newly introduced contents by II- ESD Course.

MEXT scholarship: Monbukagakusho scholarship. P.F. scholarship: Privately financed scholarship