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Regulations of the Graduate School of Engineering Science, Osaka University

Intent and Purpose

Article 1

1. The Regulations of the Graduate School of Engineering Science specify rules and regulations necessary for the Graduate School of Engineering Science, Osaka University (hereinafter referred to as the “Graduate School”) under the Osaka University Graduate School Regulations and Osaka University Degree Regulations.
2. The principle of education and research of the Graduate School is “fundamentally developing scientific technology by a fusion of science and engineering will create the true culture of humanity.” Under the principle, the Graduate School aims to develop new academic fields in response to the needs of society, and to nurture students to become the following specialists through our advanced graduate education well-balanced between science and engineering:
 - i) researchers and engineers with specializations enabling them to conduct research and development, ranging from the basic to the highly specialized;
 - ii) scientists and researchers who develop new interdisciplinary fields with advanced expertise and wide-ranging knowledge; and
 - iii) global leaders who have the competency to proceed with research and development independently.

Course

Article 2

1. The course of the Graduate School shall be a doctoral course.
2. The doctoral course shall be divided into the following two phases: a two-year master’s course (hereinafter referred to as the “Master’s Course”) and a three-year doctoral course (hereinafter referred to as the “Doctoral Course”).

Departments

Article 3

1. The Graduate School provides the following Departments:
 - Department of Materials Engineering Science;
 - Department of Mechanical Science and Bioengineering; and
 - Department of Systems Innovation
2. Each Department provides the following Divisions respectively:

Department	Division
Materials Engineering Science	Materials Physics, Chemistry, Chemical Engineering, Frontier Materials Science
Mechanical Science	Nonlinear Mechanics, Mechanical Engineering, Bioengineering

and Bioengineering	
Systems Innovation	Advanced Electronics and Optical Science, Systems Science and Applied Informatics, Mathematical Science, Mathematical Science for Social Systems

Lecture and Research Supervision

Article 4

1. Education at the Graduate School will be provided through both lectures on subjects and supervising the writing of a thesis or dissertation (hereinafter referred to as the “Research Supervision”).
2. The subjects and number of credits for each Division of the respective Departments will be as indicated in the respective Tables.
3. The provisions of Article 13 of the Regulations of the School of Engineering Science of the Osaka University will apply *mutatis mutandis* to calculation of credits for each subject in the Graduate School.

Academic Supervisor

Article 5

1. An academic supervisor will be allocated to each student.
2. The academic supervisor will be a Professor of each Department; provided that it may be substituted with an Associate Professor or an Associate Professor (lecturer) as may be approved after the faculty meeting at the Committee of the Graduate School of Engineering Science (hereinafter referred to as the “Graduate School Committee”), when deemed necessary by the Dean of the Graduate School.

Registration Procedure for Master’s Course

Article 6.1

1. The Master’s Course students are required to complete at least thirty (30) credits from the subjects (including the compulsory subjects) involved for the relevant Division as listed in the Table 1, in accordance with instructions given by their respective academic supervisor.
2. Notwithstanding the provision of the preceding Clause, students who received an offer for admission as those who only register the subjects to be taught in English are required to complete at least thirty (30) credits from the subjects (including the compulsory subjects) involved for the relevant Division as listed in the Table 2, in accordance with instructions given by their respective academic supervisor.
3. The Master’s Course students are required to receive the Research Supervision as stipulated by each Department; provided that the academic supervisor may cause any of the students to receive the Research Supervision from any graduate school of other universities or equivalent institutions to the extent deemed necessary by the academic supervisor for educational purposes, with the approval of the Graduate School Committee.
4. The Research Supervision specified in the provision to the preceding Clause may not be received for a period of more than one (1) year.
5. The academic supervisor may, to the extent it deems necessary, cause any of the students to register any of the Graduate Transdisciplinary Subjects or the Leading Program Subjects, and the credits obtained therefrom may be allocated to those specified in Clause 1 or 2 as applicable, with the approval of the Graduate School Committee.
6. The academic supervisor may, to the extent it deems necessary, cause any of the students to register any of the subjects for any other Division of the relevant Department of the Graduate School, subjects for any

other Department or graduate school of the University, undergraduate subjects for the School of Engineering Science or any other school of the University, or graduate subjects offered by other universities including overseas universities, and the credits obtained therefrom may be allocated to those specified in Clause 1 or 2 as applicable, with the approval of the Graduate School Committee.

7. The credits which may be allocated pursuant to the provision of the preceding Clause is limited to a maximum of ten (10) credits, if such credits are obtained from graduate subjects in other universities including overseas universities.
8. In addition to the credits specified in the preceding Clause, if the academic supervisor deems necessary, any credit for subjects which students may have completed in a graduate school prior to their admission to the Graduate School (including any credits which are completed as a credited auditor defined in Article 15 of the Standards for Establishment of Graduate Schools (Ordinance of the Ministry of Education No. 28 of 1974)) may, with the approval of the Graduate School Committee, be allocated to those specified in Clause 1 or 2 as applicable, up to ten (10) credits, as if such credits had been completed in the Graduate School.

Long-term Completion of Master's Course

Article 6.2

1. The Dean of the Graduate School may accept any application for well-planned longer registration made by any Master's Course student who wishes to register for a curriculum for a period of more than two (2) years for completion thereof, with a reasonable reason such as working part-time.
2. Any matter necessary for the students who are allowed to register in a well-planned manner for a longer period pursuant to the provision of the preceding Clause will be set out separately.

Registration Procedure for Doctoral Course

Article 7.1

1. The Doctoral Course students are required to complete at least twelve (12) credits from the subjects (including the compulsory subjects) involved for the relevant Division as listed in the Table 3.
2. The Doctoral Course students are required to receive the Research Supervision as stipulated by each Division; provided that the academic supervisor may cause any of the students to receive the Research Supervision from any graduate school of any other university or equivalent institution to the extent deemed necessary by the academic supervisor for educational purposes, with the approval of the Graduate School Committee.
3. The academic supervisor may, to the extent it deems necessary, cause any of the students to register any of the subjects of the Graduate School, the Graduate Transdisciplinary Subjects, subjects for any other graduate school of the University, undergraduate subjects for the School of Engineering Science or any other school of the University, or graduate subjects offered by other universities including overseas universities.

Long-term Completion of Doctoral Course

Article 7.2

1. The Dean of the Graduate School may accept any application for well-planned longer registration made by any Doctoral Course student who wishes to register for a curriculum for a period of more than three (3) years for completion thereof, with a reasonable reason such as working part-time.

2. Any matters necessary for the students who are allowed to register in a well-planned manner for a longer period pursuant to the provision of the preceding Clause will be set out separately.

Registration Plan

Article 8

Students are required to submit a Course Registration Plan indicating their proposed subjects and any other issues necessary in such form and by such date as designated, in accordance with instructions given by the academic supervisor.

Examination in Registered Subject

Article 9

Examinations in registered subjects will be conducted in writing, orally or by research paper.

Recognition of Completion

Article 10

1. Certain credits will be awarded for the subjects of which a student passed the examination pursuant to the provision of the preceding Article.
2. In principle, any recognition of result from the Research Supervision will be given by the academic supervisor at the end of each academic year; provided that such recognition may be given at any other time, if necessary to do so for a special reason.

Master's/Doctoral Thesis and Final Examination

Article 11

1. Students are required to submit a Master's or Doctoral thesis as applicable, by the due date for the assessment, and to take a final examination.
2. The final examination will be conducted in writing or orally mainly for the assessed Master's or Doctoral thesis, and for thesis-related subjects.
3. Pass /fail assessment of the Master's or Doctoral thesis and the final examination will be resolved by the Graduate School Committee based on reports from the Dissertation Committee.
4. The assessment of the Master's thesis may be substituted with assessment of findings of a specific research study, if the Dean of the Graduate School deems appropriate with the approval of the Graduate School Committee.

Special Research Student, Special Auditor and Credited Auditor

Article 12

1. Any of the following applicants may submit an application to the Dean of the Graduate School in accordance with the applicable procedure:
 - i) a graduate student of other universities who wishes to receive the Research Supervision in the Graduate School;
 - ii) a graduate student of other universities including overseas universities who wishes to take any subject in the Graduate School; or
 - iii) a working adult who wishes to take any subject in the Graduate School.

2. Any application from the applicants specified in the preceding Clause may be accepted with the approval of the Dean of the Graduate School, subject to assessment, as a special research student, if the applicant falls into paragraph i) above, as a special auditor if the applicant falls into paragraph ii) above, or as a credited auditor if the applicant falls into paragraph iii) above, as applicable.
3. The subjects that special auditors may take are as listed in Table 1; provided that foreign students shall select subjects from Table 1 and others that are approved by the graduate school.
4. The subjects that credited auditors may take are as listed in Table 1; provided that Table 4 will apply to credited auditors who take the Advanced Inter-/Multi-disciplinary Graduate-level Programs for Education, Research and Training in Nanoscience and Nanotechnology (Continuing Education Program).

Article 13

1. In principle, special research students may stay for one (1) year; provided that the students may extend such period of time each year by submitting an application, if necessary.
2. Special auditors and credited auditors may stay for a period of time during which the relevant subject is offered; provided that any special auditor or credited auditor may extend such period of time, if the Dean of the Graduate School accepts an application for extension submitted by such auditor to the Dean.
3. The provisions of Articles 9 and 10.1 will apply *mutatis mutandis* to examination in registered subjects and recognition of completion for special auditors and credited auditors.

Research Student

Article 14

1. The Dean of the Graduate School may accept an application for admission as a research student which is made by an applicant who wishes to pursue a specific theme at the Graduate School, subject to assessment by the Graduate School Committee.
2. Each applicant for admission as a research student is required to satisfy one of the following admission criteria:
 - i) holds a Master's degree; or
 - ii) is deemed as having met academic standards equivalent to a Master's degree.
3. Research students are required to enroll at the beginning of any of the semesters; provided that research students may enroll at any other time, if necessary to do so for special reasons.
4. An academic supervisor will be allocated to each research student.
5. Research students may stay for up to one (1) year; provided that such period of time may be extended, if it is deemed necessary by the Dean of the Graduate School with the approval of the Graduate School Committee for research purposes.
6. In case any research student intends to withdraw from the Graduate School, an application must be submitted to the Dean of the Graduate School through its academic supervisor.

Removal of Special Research Student, Special Auditor, Credited Auditor and Research Student

Article 15

The Dean of the Graduate School is entitled to remove from registration any student or auditor who is deemed inappropriate as a special research student, special auditor, credited auditor or research student, after discussion by the Graduate School Committee.

Other Matters

Article 16

Any other necessary matters not stipulated herein will be determined by the Dean of the Graduate School with the approval of the Graduate School Committee.

* Interested persons with concerns regarding the fine points of any of these regulations are advised to access the official Japanese regulation(s).