

Graduate School of Information
Science and Technology,
Osaka University

Admission in April 2018

Application Guide for Master Course Applicants
(Special Selection in Summer for Non-Japanese Applicants)

This application guide applies to one of the following seven entrance examinations for entrance to Master Course in April 2018 as indicated with a circle '○.'

	Entrance Examination	Date
	Master Course for 2018 (General Selection)	Summer
	Master Course for 2018 (Special Selection for Working People)	Summer
	Master Course for 2018 (Special Selection for Recommended Students)	July
	Master Course for 2018 (Special Selection for Juniors of Undergraduate Schools)	Summer
○	Master Course for 2018 (Special Selection in Summer for Non-Japanese Applicants)	Summer
	Master Course for 2018 (Special Selection in December for Non-Japanese Applicants)	December
	Master Course for 2018 (Selection for Information Technology Special Course in English)	December

March 2017

【Cautions】

Before submitting their application, all applicants should contact the academic supervisor (or the Department Chair) of the department they wish to enter with regard to the course of research they wish to follow after admission.

See the following webpage of the Graduate School of Information Science and Technology for the contact address of instructors.

<http://www.ist.osaka-u.ac.jp/english/introduction/organization.html>

1. Graduate School of Information Science and Technology

Education objectives, diploma policy, curriculum policy and admissions policy

[Education objectives]

The Graduate School of Information Science and Technology, Osaka University, holds the philosophy that “Information Science and Technology is an essential academic discipline which leads social innovation by creating new technologies and systems to implement advanced information society toward our enriched and fulfilled life.” With this in mind, we aim to develop engineers, researchers, educators, etc. who acquire a profound academic knowledge of information science and technology, play leadership roles in their major discipline, and open up new academic regions.

The master course strives to develop human resources who have the following capabilities, and, by making use of them, play an active role with high ethical standards within the information science and technology and related fields such as mathematics, life sciences, and so on.

- Broad knowledge, advanced expertise and skills relating to his/her major discipline
- The design skills required to conduct research and development by envisioning a new system
- The communication skills required to work with a global perspective
- The management ability to carry out projects in collaboration with other people

The doctor course is committed to developing human resources who are equipped with the following capabilities in addition to the above, and, by making use of them, play an active role with high ethical standards.

- The research abilities required to explore research themes set up on their own
- Leadership skills to guide other engineers and researchers with a global perspective

[Diploma Policy]

Based on diploma policies of Osaka University, the master course of Graduate School of Information Science and Technology confers a master’s degree to students who fulfill the following requirements through the systematic coursework providing an overview of the information science discipline and fostering the basic skills of information sciences.

- The students who earn a predetermined number of credits must acquire the knowledge needed to pursue a career requiring research capability and advanced expertise in the major discipline.
- The students’ master dissertations, written clearly and plainly based on the necessary research guidance received, should include research contents that contribute to the development of the major discipline, and should demonstrate the student’s abundant academic knowledge of his/her discipline.

The doctor course of Graduate School of Information Science and Technology confers a doctor’s degree to students who fulfill the following requirements through the systematic coursework enabling a deeper understanding of advanced expertise in their major discipline, and the acquisition of cutting-edge academic knowledge.

- The students have made important contributions relating to scientific principles and their application in the information science discipline by discovering an unknown phenomenon or object, establishing and rolling out a new theory, developing/inventing/applying a new technology/equipment/methodology/algorithm, producing a new academic concept, and so on.
- The student’s doctoral dissertation, written clearly and plainly based on the necessary research guidance received, demonstrates the student’s abundant overall knowledge of the discipline that makes up the academic content of the dissertation.
- The student has the academic skills required to conduct independent research, and the academic content of his/her dissertation makes a contribution to society.

[Curriculum Policy]

Based on curriculum policies of Osaka University, the master course of Graduate School of Information Science and Technology provides the systematic coursework overviewing the information science disciplines and fostering students' basic skills. The course offers basic subjects for acquiring expertise in each major as well as interdepartmental subjects covering important peripheral disciplines. The course also offers subjects that foster students' practical skills, such as interdisciplinary subjects, special lectures covering leading-edge technological trends offered by external instructors invited from the industrial community, etc., internships to experience work at a company or research institution in Japan or abroad, and project-based seminars to allow students to acquire basic qualities as advanced engineers/researchers as well as the broad knowledge required to meet the diverse requirements of society. These advanced classes relating to information science technology foster cultural knowledge, design skills and an international perspective. In addition, the course also provides excellent research guidance as well.

The doctor course of Graduate School of Information Science and Technology provides the systematic coursework enabling students to acquire more advanced expertise in their major discipline and cutting-edge academic knowledge. The course offers the basic subjects covering cutting-edge science and technology, as well as internships to experience work at a company or research institution in Japan or abroad, to foster students' ability to create new academic value. The course also trains human resources who can utilize this academic value to develop new social value. In addition to offering advanced classes relating to information science technology to foster comprehensive understanding, synthetic imagination and transcultural communicability, the course also provides excellent research guidance.

Credits are granted to students who have achieved grades of the requisite level by submitting reports and taking examinations. Students who have attained excellent grades may be able to end the course earlier than usual, subject to deliberation by the faculty council.

[Admission Policy]

Based on admission policies of Osaka University, the master course at Graduate School of Information Science and Technology accepts students, whether from Japan or abroad, who are motivated to establish and deepen information science technology, enabling the realization of a more advanced information society. For this purpose, the course accepts those who have studied information science technology in the science and technology department and who are interested in the application and roll-out of information science technology to biology or medicine. To seek candidates from a broader array of fields, the course also accepts students who have studied disciplines other than information science technology. The course is willing to accept excellent students from overseas as well, not just within Japan. To this end, the course conducts diverse types of screening using examinations and interviews.

The doctor course of Graduate School of Information Science and Technology accepts students, whether from Japan or abroad, who are motivated to create innovation in the information science discipline to realize a more advanced information society. For this purpose, the course accepts those who have learned information science technology in graduate school of science and technology (master course), who are interested in the application and roll-out of information science technology to biology or medicine, as well as students who have completed these graduate school programs and strongly wish to contribute to the information science discipline while working in various fields of society.

To seek candidates from a broader array of fields, the course accepts students who are registered in graduate schools other than information science, as well as working adults who are motivated to study and conduct research into information science. The course is willing to accept excellent students from overseas as well, not just within Japan. To this end, the course conducts diverse types of screening through examinations and interviews.

2. Enrollment Limits

Department	Number
Pure and Applied Mathematics	A few students
Information and Physical Sciences	
Computer Science	
Information Systems Engineering	
Information Networking	
Multimedia Engineering	
Bioinformatic Engineering	

3. Admission Requirements

Eligible applicants are those non-Japanese students with an appropriate level of Japanese language proficiency who fulfill any one of the following requirements.

- (1) An applicant who has graduated or expect to graduate from a Japanese university by March 31, 2018.
- (2) An applicant who has earned or expect to earn a bachelor's degree from the National Institution for Academic Degrees and Quality Enhancement of Higher Education by March 31, 2018 under the stipulations of Article 104, Clause 4 of School Education Law of Japan (Law No.26, 1947).
- (3) An applicant who has completed or expect to complete 16 years of formal school study in a foreign country by March 31, 2018.
- (4) An applicant who has completed correspondence courses in Japan which are administered by foreign schools and thus completed 16 years of formal school education in the said country or who is expected to have completed such by March 31, 2018.
- (5) An applicant who has graduated from a foreign university which is positioned as a university in the school education system of that country or who is expected to do so by March 31, 2018. The said university must be recognized by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government. In this case the applicants must have completed 16 years of formal education in the said country.
- (6) An applicant who has completed an academic program of either a foreign university or a foreign educational institution (limited to which its comprehensive progress of education and research have been evaluated by an external personnel certified by its government or its related agency, or an institution designated as equivalent by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government) whose term of study is at least 3 years or more (including completion of the said program in our country earning credits from its institution's correspondence course or from an educational facility established in Japan under the school education system of the said foreign country designated in the preceding issue), and has earned or expect to earn a bachelor's degree or an equivalent degree by March 31, 2018.
- (7) An applicant who has graduated from a specialized course of a college which is recognized by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government, on or after the date designated by the Minister, or who is expected to do so by March 31, 2018. The college must fulfill the criteria designated by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government, including a term of study of four years or more.
- (8) An applicant who is accredited by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government (Notification No.5 of the Education Ministry dated February 7, 1953).
- (9) An applicant who entered a university under the stipulations of Article 102, Clause 2 of School Education Law of Japan and who is accredited by the Graduate School of Information Science and Technology via the pre-application screening as having appropriate academic ability for a graduate student.

- (10) An applicant who has graduated from a junior college, a specialized vocational high school, a school in the miscellaneous category or other educational institutions, who is at least 22 years-old by March 31, 2018, and who is accredited by the Graduate School of Information Science and Technology via the pre-application screening as having academic skills equal to a university graduate.

4. Pre-application Screening

In the case of applicants falling in category (9)-(10) of the Admission Requirements shown above, a pre-application screening is necessary. An applicant may submit an application for admission after passing the pre-application screening.

All applications must be sent via postal recorded delivery (*kani-kakitome*), using an envelope of 33cm×24cm in size, so that it reaches the university by the designated date.

Indicate 'Master Course Special Selection in Summer for Non-Japanese Applicants' in red ink on the outside of the envelope.

Acceptance Period	May 22, 2017 (Mon.) – June 2, 2017 (Fri.)
Application documents	No.1 to 3 shown in the list of application documents
Submit to:	Graduates Section Graduate School of Information Science and Technology Osaka University 1-5 Yamadaoka, Suita, Osaka 565-0871, JAPAN

Submission of an application form to the Graduates Section by hand is permissible within the following period, provided that the applicant has an acceptable reason for doing so. Use an envelope of 33cm×24cm in size.

May 31, 2017 (Wed.) – June 2, 2017 (Fri.)	9:00–11:30 / 13:00–16:00
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The result of the pre-application screening will be sent to each applicant by mail on June 13, 2017 (Tue.).

5. Application Procedure

All applicants must contact the academic supervisor (or the Department Chair) of the department they wish to enter to obtain their confirmation seal before submitting their application form.

All applications must be sent via postal recorded delivery (*kani-kakitome*), using an envelope of 33cm×24cm in size. All application forms must reach the Graduates Section by the designated date.

Indicate 'Master Course Special Selection in Summer for Non-Japanese Applicants' in red ink on the outside of the envelope.

Acceptance Period	June 19, 2017 (Mon.) – June 30, 2017 (Fri.)	
Application documents	Application Requirements (1)-(8)	No.4 – 14 shown in the list of application documents
	Applicants passed the pre-application screening (Application Requirements (9)-(10))	No. 4, 5 and No.8 – 14 shown in the list of application documents
Submit to:	Graduates Section Graduate School of Information Science and Technology Osaka University 1-5 Yamadaoka, Suita, Osaka 565-0871, JAPAN	

Submission of an application form to the Graduates Section by hand is permissible within the following period, provided that the applicant has an acceptable reason for doing so. Use an envelope of 33cm×24cm in size.

June 28, 2017 (Wed.) – June 30, 2017 (Fri.)	9:00–11:30 / 13:00–16:00
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The examination admission card will be sent to each applicant by mail on July 10, 2017 (Mon.).

6. Examination Fees

¥ 30,000-

Place of payment: All banks (Don't use an ATM for sending the payment.)

You can't pay the examination fee at the Japan Post Bank.

Method of payment: Use a money transfer slip designated by the Graduate School.

All bank charges incurred in this connection shall be borne by the applicant.

Paste and submit a bank receipt with a stamp (certificate of examination fee payment) to the Graduates Section.

Japanese Government Scholarship Students should make an inquiry to the Graduates Section about examination fees.

(Note) Transfer of examination fee in case of application from overseas

Make a payment of 30,000 yen (Japanese yen) of examination fee by transfer in accordance with the following guideline as well as submit a copy of Foreign Remittance Request. If a separate commission is required at the local bank from which you will transfer the fee, you are required to pay the commission at the counter in addition to the examination fee above.

If you are unable to transfer in Japan due to a compelling reason, we may accept the value through your credit card. Please contact the Graduates Section by e-mail well in advance.

Remittance type: Telegraphic transfer

Bank commission: To be borne by Applicant

Amount of money to be transferred: 30,000 yen

Purpose of transfer: Examination fee

(*Entry item for application form)

Receiving bank: THE BANK OF TOKYO-MITSUBISHI UFJ LTD (Swift code: BOTKJPJT)

Branch name: IBARAKI BRANCH

Account number: 1300216

Payee name: OSAKA DAIGAKU JOUHOUKAGAKUKENKYUKA

Currency: JPY

7. Selection Methods

Selection will be made after comprehensively examining the results of written examinations, an academic transcript of the school the applicant graduated from and scores of the TOEIC (or TOEFL) test. (TOEIC or TOEFL score is not used for the Department of Pure and Applied Mathematics). The examinations include written examinations and interview tests.

All applicants except for those applying to the Department of Pure and Applied Mathematics must submit a TOEIC (or TOEFL) score sheet. Applicants for Information and Physical Sciences can submit a TOEIC or a TOEFL score. Applicants for Computer Science, Information Systems Engineering, Information Networking, Multimedia Engineering and Bioinformatic Engineering can submit a TOEFL score in case it is difficult to submit a TOEIC score. Please submit the score in the application acceptance period or on the first day of the entrance examination. The TOEIC (or TOEFL) score sheet must be original. No copies are accepted.

However, you may re-submit scores on the first day of the entrance examination even if you have already provided scores when you submitted your application. The applicants who do not submit the TOEIC (or TOEFL) score at the time of application or who re-submit the score must submit the TOEIC (or TOEFL) score sheet at the

examination room on the first day of entrance examination under the instruction of examiners.

Date of entrance examination	Pure and Applied Mathematics	【Written Examination】 July 29, 2017 (Sat.) 10:00-16:30 【Interview Test】 July 30, 2017 (Sun.) – July 31, 2017 (Mon.) 9:00~
	Information and Physical Sciences	【Written Examination】 July 29, 2017 (Sat.) 9 : 00~ 【Interview Test】 July 30, 2017 (Sun.) 10:00~
	Other departments	【Written Examination】 July 29, 2017 (Sat.) 9 : 00~ 【Interview Test】 July 30, 2017 (Sun.) 13:00~
Examination room	All departments	Graduate School of Information Science and Technology (Suita campus)

The written examinations include specialty subjects and others as designated by each department. Refer to the attached sheet for the details of test subjects.

Details about the examination will be supplied to each applicant when an examination admission card is sent.

8. Announcement of Examination Results

For all departments, the successful examinees' numbers will be displayed on the bulletin board on the first floor of the Graduate School of Information Science and Technology building at Suita Campus. At the same time, a notification of success will be sent to each successful applicant via mail. No telephone inquiries are accepted.

Announcement of Examination Results	August 7, 2017 (Mon.) at 2:00 p.m.
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9. Necessary Money for Enrollment

Admission fees: ¥282,000

Tuition fees: ¥535,800 (annual tuition)

Tuition fees are withdrawn from the account in two equal installments. (¥267,900 each)

- (1) The above fees are valid as of April 2017 and are subject to change. The fees for the 2018 academic year will be confirmed before the admission procedure starts.
- (2) In the case of a change in tuition fees during school terms, the revised tuition fees will be applicable as of the date when they are effective.
- (3) If they are admitted as a Japanese Government Scholarship Student on the time of their entrance to the Graduate School, they are exempt from admission fee and tuition fee payments.

10. Handling of Personal Information

- (1) The names, addresses and other personal information obtained from applicants are used for entrance examination purposes such as the 'selection of students (handling of applications and selection examinations)' and 'admission procedures' only.

For successful applicants, personal information is also used for 'student control purposes (school register control and course taking instructions),' 'student support (health management),' and 'tuition fee collection'.

- (2) Entrance examination results and other data are used for tabulation and analysis of the examination results and research and study on appropriate applicant selection methods.
- (3) We may entrust an outsourcing contractor with the handling of any personal information to conduct the above business. In this case, we make a contract with the outsourced companies to handle the personal information in an appropriate way and provide the whole or a part of the information to them.

11. Cautions

- (1) Some applicant may not be required to submit a TOEIC/TOEFL score certificate.
For example, a native English speaker or a student who has graduated from or who is expected to graduate from an institution where all instruction is in English. Such an applicant should consult with his/her intended academic supervisor, prior to submission of the application form, to verify that it can be waived from application requirement.
- (2) An applicant requiring special assistance for taking an entrance examination or studying after admission should inform the Graduates Section to this effect by June 2, 2017 (Fri.).
- (3) Application documents which are incomplete, or contain errors and omissions will not be accepted.
- (4) After they are submitted, application documents may not be corrected in any manner.
- (5) The admission procedure is accepted from March 8, 2018 (Thu.) to March 9, 2018 (Fri.) Successful applicants will be notified of the details at a later date.
- (6) An applicant who does not fulfill entrance requirements(Article 20 of Osaka University Regulations) by March 31 2018 is subject to the cancellation of his/her admission to the Graduate School.
An applicant who has submitted false information in the application documents may be subject to the cancellation of his/her admission to the Graduate School.
- (7) Examination fees are not refunded except in the following cases:
 - (a) an applicant is found not to be qualified for the examination after his/her submission of application documents,
 - (b) application documents arrive after the close of the acceptance period and hence are rejected,
 - (c) application documents are incomplete, or contain errors and omissions and hence are rejected,
 - (d) examination fees are paid but the applicant doesn't submit his/her application documents within the acceptance period,
 - (e) examination fees are paid twice erroneously, or
 - (f) other cases in which the University elects to award a refund.

In the case of (a) to (f) above, an applicant should make a claim for a refund of the examination fees to the University. For the detailed procedures, contact to the Accounting Section.

Claim for refund to be submitted to:

Accounting Section
Graduate School of Information Science and Technology
Osaka University
1-5 Yamadaoka, Suita, Osaka 565-0871, JAPAN

- (8) Information and measures in case of unexpected contingency will be announced on the Graduate School's homepage.
- (9) The entrance examination implemented this time is for non-Japanese students with an appropriate student visa. An applicant is, in principle, ineligible to submit an application form if he/she does not hold an appropriate student visa. Therefore, an applicant applying for the Graduate School of Osaka University who currently lives outside Japan or who is currently staying in Japan with a visa other than a 'student visa' must obtain or change to a 'student visa,' before undergoing the admission procedure.
- (10) Non-Japanese Student Categories
 - Japanese Government Scholarship Students: Non-Japanese students awarded a scholarship by the Japanese Government (Japanese Government (*Monbukagakusho*) Scholarship Student)
 - Students dispatched from foreign countries: Foreign government-sponsored students
 - Unsupponsored non-Japanese students: Other non-Japanese students

12. Others

About the Program for Leading Graduate Schools

Osaka University offers several programs within the distinctive Program for Leading Graduate Schools. Along with conventional graduate school education and research, these programs provide coursework to facilitate collaboration with a diversity of individuals in society. Through the program, students are able to obtain a broad perspective and foster the creativity necessary to become social citizens and active leaders serving the global society.

Successful candidates in the Graduate School of Information Science and Technology(except for the department of Pure and Applied Mathematics) can apply for the programs listed below. Please refer to the website of the relevant program for details.

Program Name	The Graduate Schools, majors, that are the focus of this program	HP URL
Humanware Innovation Program	Graduate School of Information Science and Technology (Department of Information and Physical Sciences, Computer Science, Information Systems Engineering, Information Networking, Multimedia Engineering, Bioinformatic Engineering), Graduate School of Engineering Science(Division of Mechanical Science and Bioengineering, Systems Innovation), Graduate School of Frontier Biosciences	http://www.humanware.osaka-u.ac.jp/en/

March 2017

《Please direct your inquiries to:》

Graduates Section

Graduate School of Information Science and Technology

Osaka University

1-5 Yamadaoka, Suita, Osaka 565-0871, JAPAN

E-mail: office@ist.osaka-u.ac.jp

Website of Graduate School of Information Science and Technology:

<http://www.ist.osaka-u.ac.jp/>

List of Application Documents

● Documents required for pre-application screening

No	Documents	Description
1	Application Qualification Assessment Form (Resume)	Use the designated form.
2	Application Qualification Assessment Report (Research Result)	Use the designated form.
3	Academic transcript	Must be issued by the last university, etc., the applicant graduated from, or its equivalent.

● Documents that must be attached and submitted with the application form

4	Application for admission Examination Admission Card and Photo Identification Card	Use the designated form. Submit it after receiving a stamp/seal from the academic supervisor (or the Department Chair). Attach a picture taken within 3 months prior to the date of application. 1) Use either Japanese or English when completing the form. 2) Don't use acronyms for proper nouns but spell them out fully.
5	Research Plan	Use the designated form.
6	Academic transcript	Must be issued by the last university, etc., the applicant graduated from. Students graduating from the undergraduate schools of Science, Engineering and Engineering Sciences of Osaka University are exempt.
7	(Expected) Graduation letter/certificate of (Expected) Graduation	Must be issued by the last university, etc., the applicant graduated from. Students graduating from the undergraduate schools of Science, Engineering and Engineering Sciences of Osaka University are exempt.
8	TOEIC/TOEFL Score Certificate	Applicants for Pure and Applied Mathematics should take an English examination, and hence are exempt from this requirement. <hr/> (Applicants for Information and Physical Sciences): An Official Score Certificate of TOEIC <i>or</i> a Test Taker Score Report of TOEFL dated after July 2015 must be submitted either together with the application documents or on the first day of the examination. The certificate and record must be original. Copies will not be accepted. However, you may re-submit scores on the first day of the entrance examination even if you have already provided scores when you submitted your application. Scores from TOEIC-IP, TOEIC Speaking & Writing Tests, TOEIC Speaking Test, TOEIC Bridge Test, and TOEFL-ITP are not acceptable. Note: Refer to the article about TOEIC/TOEFL score sheet in page 7 of "7. Selection Methods" <hr/> (Applicants for Computer Science, Information Systems Engineering, Information Networking, Multimedia Engineering and Bioinformatic Engineering): Submit an Official Score Certificate of TOEIC issued after July 2015 either together with the application documents or on the first day of the examination. If it is difficult to submit the TOEIC score, a Test Taker Score Report of TOEFL dated after July 2015 is also acceptable. The certificate and record must be original. Copies will not be accepted. However, you may re-submit scores on the first day of the entrance examination even if you have already provided scores when you submitted your application. Scores from TOEIC-IP, TOEIC Speaking & Writing Tests, TOEIC Speaking Test, TOEIC Bridge Test, and TOEFL-ITP are not acceptable. Note: Refer to the article about TOEIC/TOEFL score sheet in page 7 of "7. Selection Methods"
9	Certificate of proficiency of Japanese language	Submit either one of the following in any form. This is not required for graduates of a Japanese university. 1) Certificate issued by the academic supervisor 2) Score sheet of a Japanese language proficiency test 3) Certificate issued by the Center for International Education and Exchange, Osaka University
10	A copy of the Certificate of Residence (Juminhyo-no-Utsushi)	(Required only if the applicant lives in Japan) The document issued by the local government office which mentions your status of residence and period of stay. *Not required that of family members.
11	Certificate of <i>Monbukagakusho</i> Scholarship Student	For Japanese Government Scholarship Students only except for applicants currently studying at Osaka University.
12	Certificate of examination fee payment	After bank transfer of the examination fees of ¥30,000, attach the examination fee payment certificate on the designated form. (Don't remit the fee using an ATM.) Japanese Government Scholarship Students are exempt from this requirement.
13	An envelope (for sending the examination admission card)	The envelope must be sized 33cm×24cm. Make sure to indicate the name and address of the applicant on the front, and affix a ¥140 stamp.

Note: Certificates, documents and references written in a language other than Japanese or English must be accompanied by a Japanese translation.

Attachment

I. Examination Subjects

Department	Subjects
Pure and Applied Mathematics	<p>【Written Examination】 a. English b. Mathematics</p> <p>【Interview Test】 Examinees must come to the designated examination room on time.</p>
Information and Physical Sciences	<p>【Written Examination】 Information and Physical Sciences Refer to http://www.ist.osaka-u.ac.jp/japanese/research/majors/ips/ or contact to the department chair of Information and Physical Sciences.</p> <p>【Interview Test】 Examinees must come to the designated examination room on time.</p>
Computer Science Information Systems Engineering Information Networking Multimedia Engineering Bioinformatic Engineering	<p>【Written Examination】 Select either (A) or (B) shown below and take the examination. Make sure to mention either 'Information Engineering' or 'Biology for Bioinformatic Engineering' to the 'Subject to Select' column in the application form. Applicants who have selected Information Engineering may enroll in all courses with the exception of the two Bioinformatic Engineering specialist courses (Metabolic Engineering and Symbiotic Network Design). Applicants who have selected Bioinformatic Engineering may only enroll in the two Bioinformatic Engineering specialist courses (Metabolic Engineering and Symbiotic Network Design).</p> <p>(A) Information Engineering [Range of Examination for Applicants of Information Engineering]</p> <p>Specialty Subject [Compulsory] 1.Algorithms and Programming Algorithm design, Procedural programming, Computational complexity, Data structure, Recursion, Sort algorithm, Search algorithm</p> <p>2.Computer System and System Program Computer system area: Number representation, Arithmetic/logic operation control, Instruction execution control, Memory control, Input/output control, System program area: Process management, Processing unit management, Memory management, Input/output management, File management</p> <p>Specialty Subject [Optional] Two from five subjects must be selected and taken. 1.Discrete structure Set and proposition, Relation, Recurrence relation, Boolean functions,</p>

	<p>Boolean algebra, Minimum sum-of-product, Propositional logic, Predicate logic, Resolution principle, Graph</p> <p>2.Computation theory Words and languages, Finite automata, Regular expressions and languages, Formal languages and their classes, Derivation/recognition/parsing, Context free grammars and context free languages, Pushdown automata</p> <p>3.Information network Source coding and channel coding, Layered architecture model, Protocol and interface, Protocol design/specification/evaluation, Network applications</p> <p>4.Electronic circuit and logic design Diode and transistor, MOSFET, Analog electronic circuit, Operational amplifier, Memory device/Storage element, Expression of number, Logic algebra and logic function, Combinational logic circuit, Sequential logic, Arithmetic and logical unit</p> <p>5.Mathematical analysis and signal processing Differential equation, Fourier series, Laplace transform, Complex function, Manipulation of signals, Fourier analysis for continuous-time signal, Sampling, Fourier analysis for discrete-time signal, Z transform, Filter</p> <p>(B) Biology for Bioinformatic Engineering [Range of Examination for Applicants of Biology for Bioinformatic Engineering]</p> <p>Specialty Subject: Basic biology (based on the contents of Essential Cell Biology (Nankodo Co., Ltd.)</p> <p>Specialty Oral Examination: An examinee is required to describe which domain of study and research he/she wishes to follow after admission to Bioinformatic Engineering.</p> <p>Note: An applicant who selects 'Biology for Bioinformatic Engineering' should visit the following website, or make an inquiry to the Department Chair of Bioinformatic Engineering. http://www-bio.ist.osaka-u.ac.jp/adminInfo.pdf</p> <p>【Interview Test】 Examinees must come to the designated examination room on time.</p>
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Note: Applicants will be notified of details of the examination room when the examination admission card is sent.

Attachment

II. Examination Schedule

Applicants will be notified of details of the examination room and interview test when the examination admission card is sent.

- Pure and Applied Mathematics

Date	Subject		Time
July 29, 2017 (Sat.)	Written Examination	English	10:00 – 12:00
		Mathematics	13:30 – 16:30
July 30, 2017 (Sun.) July 31, 2017 (Mon.)	Interview Test		9:00 – (Be sure to be at the examination room on time.)

- Information and Physical Sciences

Date	Subject		Time
July 29, 2017 (Sat.)	Written Examination	Information and Physical Sciences	9:00 – 12:00
July 30, 2017 (Sun.)	Interview Test		10:00 – (Be sure to be at the examination room on time.)

- Computer Science
 - Information Systems Engineering
 - Information Networking
 - Multimedia Engineering
 - Bioinformatic Engineering

(A) Information Engineering

Date	Subject		Time
July 29, 2017 (Sat.)	Written Examination	Specialty Subject	9:00 – 12:00
July 30, 2017 (Sun.)	Interview Test		13:00 – (Be sure to be at the examination room on time.)

(B) Biology for Bioinformatic Engineering

Date	Subject		Time
July 29, 2017 (Sat.)	Written Examination	Specialty Subject	9:00 – 12:00
		Specialty Oral Examination	13:30 – 16:30
July 30, 2017 (Sun.)	Interview Test		13:00 – (Be sure to be at the examination room on time.)