

October 2023 Admission

**Graduate School of Informatics
Kyoto University**

**Guidelines for Admission to the
Master's Program**

Intelligence Science and Technology

Social Informatics

Advanced Mathematical Sciences

Applied Mathematics and Physics

Systems Science

Communications and Computer Engineering

Data Science

Entrance Examination in July and August 2023

Translation Disclaimer

Kyoto University strives to achieve the highest possible accuracy in translating its documents from their official language of Japanese. However, due to the nature of translated documents, accuracy is not guaranteed. The translated documents are produced for reference only, and are not legally binding. The original documents in the Japanese language shall always take precedence over their translated versions.

**The information in the guidelines is subject to change without notice.
Refer to the latest information available at <http://www.i.kyoto-u.ac.jp/>**

Admissions Policy of the Graduate School of Informatics

The field of study referred to as Informatics at the Graduate School of Informatics at Kyoto University consists of areas related to information in natural, artificial, social and life-related systems. It can be characterized by three pillars: the interface between humans/society and information, mathematical modeling, and information systems. The aim of the Graduate School of Informatics is not confined to the creation of new fields of study related to the three pillars. More broadly, we explore an understanding of the essence of 'information' and the immense impact of information technology on society, and we pursue advancement of information-related science and technology in the appropriate directions. According to the goal of Kyoto University, we will contribute, from the perspective of Informatics, to establishing harmonious coexistence within the global community.

We welcome a wide range of talented students who will understand the concepts of Informatics and will study science and technologies of Informatics passionately, and will aspire to develop this new academic area for the future. As long as the applicant is proficient in their field of study or research, we hope to accept students from diverse backgrounds related to Informatics-unfettered by the conventional framework of sciences versus humanities-from Japan and from other countries. We also welcome working professionals who have a passion for studying Informatics.

Specifically, we welcome students having outstanding skills in diverse backgrounds, strong desire to study, strong interest in particular fields that comprise Informatics, and having excellent communication skills. We also hope to attract post-graduate fellows who have a strong foundation for their cutting-edge knowledge of Informatics and conduct research on science and technologies of Informatics, to advance to our Doctoral program.

The Master's Program in the Graduate School of Informatics (hereinafter referred to as "the School") constitutes the first two years of the Doctoral Program, as indicated in paragraph 4, article 4 of the Standards for the Establishment of Graduate Schools.

The International Program is established in the Intelligence Science and Technology Course; Social Informatics Course; and Communications and Computer Engineering Course, which provide both lectures and research courses in English sufficient for completing the Master's Program.

All times stated in the guidelines are in Japan Standard Time.

The Japanese version of the guidelines shall be the authoritative version, with the English translation provided only as a reference.

I. Number of Students to be Accepted for Admission: a small number of students for each Course

- Intelligence Science and Technology Course
- Social Informatics Course
- Advanced Mathematical Sciences Course
- Applied Mathematics and Physics Course
- Systems Science Course
- Communications and Computer Engineering Course
- Data Science Course

The above numbers include a small number of students for the International Program in Intelligence Science and Technology; Social Informatics; and Communications and Computer Engineering, respectively.

II. Eligibility

Applicants who presently fall into one of the following categories or anticipate doing so at the end of September 2023 will be eligible to apply.

1. Applicants who have graduated from a Japanese university.
2. Applicants who have been awarded a bachelor's degree in accordance with the stipulation in paragraph 7, article 104 of the School Education Law of Japan.
3. Applicants who have completed 16 years of school education in a foreign country (see note 1 below).
4. Applicants who have completed an equivalent of 16 years of foreign school education through distance learning while residing in Japan (see note 1 below).
5. Applicants who have completed a foreign university curriculum, through which the applicant is certified as having completed 16 years of school education in the respective foreign country, at an educational facility in Japan that has been accredited as having an approved curriculum under the educational system of the respective foreign country and is so designated by the Minister of Education, Culture, Sports, Science and Technology of Japan (hereinafter referred to as "the Minister of MEXT") (see note 1 below).
6. Applicants who have been awarded a degree equivalent to a bachelor's degree by completing a three-year or longer program at a foreign university or other foreign educational facility. The university or educational facility must have been accredited by the respective foreign government or a person certified by the appropriate foreign governmental agency, or have been so designated by the Minister of MEXT. (This includes applicants who have completed an appropriate program offered by the respective foreign educational facility through distance learning while residing in Japan, and applicants who have completed an appropriate foreign educational program at an educational facility in Japan as specified in the previous category.)

7. Applicants who have completed an advanced professional course at a higher vocational school designated by the Minister of MEXT, on or after the date designated by the Minister of MEXT.
8. Applicants designated by the Minister of MEXT.
9. Applicants who have completed 15 years of school education in a foreign country, and who are recognized by the School as having acquired sufficient credits with an excellent academic record (see note 1 below).
10. Applicants who are recognized by the School as having a scholastic ability on par with or higher than that of a university graduate as a result of an individual screening of their application eligibility, and are at least 22 years old (see note 2 below).

(Notes)

- 1) After the announcement of successful applicants, applicants will have their eligibility confirmed prior to admission. Applicants found to have falsified their submitted documents will be deemed ineligible and will have their acceptance revoked, even after enrollment procedures have been completed.
- 2) Applicants falling into category 10 above must undergo a screening for Application Eligibility in advance. The School will not accept the application materials stated in section IV. Application Form and Supporting Materials otherwise. (refer to III. “Screening for Application Eligibility” below).

III. Screening for Application Eligibility (Applicants falling into eligibility category 10)

Prior to application for the entrance examinations, applicants should submit the documents below in person to the Student Affairs Division of the School (1st floor, Research Bldg. No. 8) no later than 5:00 p.m. on Monday, May 22, 2023, or send the documents by registered express mail or another reliable carrier, with “Application for Eligibility Screening; October 2023 Admission to the Master’s Program” written in red on the envelope.

1. Documents required for application eligibility screening

(Use the appended documents for the item with an asterisk *)

All documents must be in Japanese or English, or accompanied by Japanese or English translations for the other languages.

*	1. Application Form for Eligibility Screening	Complete accurately.
	2. Certificate of Graduation (or Prospective Graduation)	Issued by the educational institution last attended and indicate the dates of enrollment and graduation (or prospective graduation).
	3. Transcript	Issued by the educational institution last attended.

2. Screening procedure and schedule

- 1) The School examines the above documents and conducts written examinations (on basic subjects and English language) and oral examinations (on specialized subjects) to confirm that scholastic abilities of the applicants are on par with those of university graduates. The School will administer written examinations and oral examinations on Thursday, June 1, 2023. Applicants who have undergone an eligibility screening by the School in the past and were certified as eligible only need to submit the application form (*1) indicated above. The written examinations and oral examinations will be waived for such applicants.
- 2) The School will send the results of the screening by post to the applicants on Tuesday, June 6, 2023.

IV. Application Form and Supporting Materials

All documents must be in Japanese or English, or accompanied by Japanese or English translations for the other languages. Applicants found to have falsified their documents will be deemed ineligible and will have their acceptances revoked, even after enrollment procedures have been completed.

For Applicants Residing Outside Japan Only

For application, download these guidelines and use the appended documents for the items with an asterisk *.

*	1. Application Form for Admission/Photograph Form/Examination Form	Complete the required forms accurately. Include a recent unretouched photograph (within three months of application) measuring 4 cm by 3 cm (length by width) for the Photograph and Examination Forms. The photograph should show the full head of the applicant looking straight into the camera and be affixed within the appropriate area on the forms.
	2. Transcript	The transcript must be original, officially issued by the university in which applicants are/were enrolled.
	3. Statement of Personal Objectives	Describe the progress of study and research to date, motivations, and aspirations for study after entrance. If applicants who have completed (or are completing) courses for their bachelor thesis, they should describe the themes and content of those courses. There is no prescribed format for the statement, but it should be typed, two A4-sized pages or less, with the applicant's name on top of each page.
	4. Residence Card or Photocopy of Passport (Foreign nationals only)	Foreign students living in Japan should provide a copy of the front and back of their Residence Card showing their status of residence, duration of residence, and address. Foreign nationals should provide a copy of the photo ID page of their passport. These copies should be printed on A4-size paper.
	5. Evidence of Payment of Application Fee	<p>Application fee: 30,000 yen</p> <p>Payment procedure: Access the Examination Settlement Service below and follow the instructions for payment. https://www3.univ-jp.com/kyoto-u/en/inf/</p> <p>Print out a certificate of payment from the completed application page and affix it to an A4-size paper and enclose the certificate with the other supporting materials for application.</p> <p>Payment period: Wednesday, June 7 – Tuesday, June 20, 2023 (no later than 5:00 p.m.) Payment must be made during the above period.</p> <p><u>For Applicants Residing Outside Japan</u> Make a payment by credit card (VISA, MasterCard, JCB, AMERICAN EXPRESS, or Diners Club INTERNATIONAL). It is acceptable to use a credit card which carries a name different from that of the applicant (e.g., applicant's parents). If it is difficult to pay using a credit card due to circumstances related to where the applicant is located, contact the School before Monday, May 29, 2023.</p> <p><u>For Applicants Residing in Japan</u> Make a payment at a designated convenience store, at a financial institution's ATM (Pay-easy), or online with one of</p>

		<p>the above credit cards or through designated internet banking. It is acceptable to use a credit card or a bank account which carries a name different from that of the applicant (e.g., applicant's parents).</p> <p>Exemption and notes:</p> <p>1) MEXT Scholarship Students: Even prospective international students of a Japanese Government (MEXT*1) Scholarship are required to pay the application fee. After the enrollment as Japanese Government Scholarship recipient to Kyoto University, the examination fee will be refunded upon completing the required procedure. (Details are given after the enrollment to Kyoto University) *1 Ministry of Education, Culture, Sports, Science and Technology of Japan</p> <p>2) Applicants applying <u>simultaneously for April 2024 admission to the Master's Program with this October 2023 admission</u>, need not pay the application fee for April 2024 admission. Please pay this October 2023 admission application fee only.</p> <p>3) For households in regions where the Disaster Relief Act is effective and whose principal wage-earner has been adversely affected by the 2011 Great East Japan Earthquake (Tohoku earthquake and tsunami), the 2016 Kumamoto Earthquake, the Heavy Rain Event of July 2018, the 2018 Hokkaido Eastern Iburi Earthquake, 2019 Typhoon No. 19th (Typhoon Hagibis), and the 2020 Heavy Rains, an exemption may be made to the payment of Entrance Examination Fees for cases where a Risai-shomeisho (罹災証明書: Disaster Victim Certificate) has been issued. For further details, please contact the Student Affairs Division of the School by Monday, June 5, 2023.</p>
	6. Envelope for Delivery of Examination Voucher <u>for applicants residing in Japan only</u>	Affix a 674-yen stamp (for registered express mail), and write the applicant's full name, address, and postal code on the prescribed envelope for delivery of the examination voucher in late July 2023; or in early July for the Advanced Mathematical Sciences Course.
	7. Envelope for Delivery of Outcome of Application <u>for applicants residing in Japan only</u>	Write the applicant's full name, address, and postal code on the prescribed envelope for delivery of the outcome of application in mid-August 2023; or in late July for the Advanced Mathematical Sciences Course. (Promptly notify the School if the address is changed.)
*	8. Address Label A	Write the applicant's full name, address, and postal code on the appended form for the delivery of the examination voucher in late July, 2023 or in early July for the Advanced Mathematical Sciences Course. (Promptly notify the School if the address is changed.)
*	9. Address Label B	Write the applicant's full name, address, and postal code on the appended form for the delivery of the outcome of application in mid-August, 2023 or in late July for the Advanced Mathematical Sciences Course. (Promptly notify the School if the address is changed.)
*	10. Address Label C	Write the applicant's full name, address, and postal code on the appended form for the delivery of the enrollment materials for the successful applicants in early September 2023. (Promptly notify the School if the address is changed.)

*	11. Application Form for Eligibility Screening	Submit only if the applicant falls into category 9 or 10 of section II, Eligibility above.
	12. Evidence of English Proficiency	<p>For applicants to the Intelligence Science and Technology Course; Social Informatics Course; and Applied Mathematics and Physics Course: Submit a copy for one of the following official test score records.</p> <ul style="list-style-type: none"> - TOEFL Test Taker Score Report - TOEIC Official Score Certificate - IELTS Test Report Form (TRF) <p>For applicants to the Systems Science and Data Science Course: Submit a copy of TOEFL Official Score Report. TOEIC and IELTS are not accepted.</p> <p>For applicants to the Communications and Computer Engineering Course: Submit a copy for one of the following official test score records.</p> <ul style="list-style-type: none"> - TOEFL Test Taker Score Report - TOEIC Official Score Certificate <p>For details, refer to section V. “English Test Scores (TOEFL, TOEIC, and IELTS).”</p>

(Notes)

- 1) Applicants expected to fall into eligibility category 2 of II. Eligibility above, must submit a certificate (free format) to the effect that: “the applicant is expected to be awarded a bachelor's degree; in the event that a bachelor's degree is not awarded, this fact will be promptly notified to the School”.
- 2) Accepted applicants who are currently enrolled in another Graduate School of Kyoto University must submit a certificate of withdrawal (or completion) from their Graduate School at the time of enrollment into the School. Those who falsify their status when filing applications may have their acceptance revoked even after the enrollment procedure has been completed.
- 3) Applicants applying simultaneously for the October 2023 and April 2024 admission to the Master's Program need submit only one copy each of the documents noted under items 2, 4, and 12 above.
- 4) For successful international students, at the time of enrollment procedure, they must submit a “Residence Certificate” which indicates their visa status as college student and the period of stay.
- 5) For the Intelligence Science and Technology Course; Social Informatics Course; Applied Mathematics and Physics Course; Systems Science Course; and Communications and Computer Engineering Course, submission of an official score record of one of the English language tests (TOEFL, TOEIC, and IELTS) will replace the written examination of English proficiency. Note that the Systems Science will only accept the TOEFL, and the Communications and Computer Engineering will accept TOEFL and TOEIC score.
- 6) Failure to submit a TOEFL, TOEIC, and IELTS score record by the application deadline will result in the English test scores being recorded as zero.

V. English Test Scores (TOEFL, TOEIC, and IELTS)

1. The applicant is responsible for taking all the necessary steps and paying any related costs for taking the TOEFL, TOEIC, and IELTS tests.
2. Submit a photocopy for one of the following official score records:
 - TOEFL (TOEFL iBT, Test Taker Score Report)
 - TOEIC Listening & Reading Test (Official Score Certificate)
 - IELTS (Test Report Form)

3. The School accepts only the score records of TOEFL, TOEIC, and IELTS tests taken within two years prior to the School's application deadline. Score reports from the "TOEFL iBT® (Special) Home Edition" will be accepted; however, we will not accept score reports from the TOEFL ITP for group assessments (TOEFL® Essentials™) or score certificates from the Institutional Program (IP test) for College TOEIC or similar assessments.
4. Applicants who have taken the TOEFL, TOEIC, and IELTS multiple times must submit the single result of their choice for application.
5. For details about score conversions for the different English proficiency test (TOEFL/TOEIC/IELTS), please refer to VIII. Application Groups and Supplemental Information on Examination Subjects.
6. Applicants who cannot submit their score record by the application deadline may still apply but must submit a letter (on A4-size paper, no specified format) to that effect together with their application materials to the School, and submit the score record at the examination room prior to the start of the first examination on August 7, 2023. If applicants do not submit a score record for one of the above tests by the first examination day, the School will record their English test score as zero.

VI. Application Procedures and Notices

1. Applicants must bring all required application materials in person or send them by post to the address shown below. If sending by post, write "Application materials for October 2023 admission to the Master's Program enclosed" **in red** on the envelope, and send **by registered express mail or other trackable delivery service**. The School may contact the applicants if their application materials are not in order.
2. Applications will be considered to be completed with dispatch of examination vouchers by the School.
3. In principle, once the materials have been accepted, no subsequent revision to the application details will be allowed and they will not be returned to applicants. The School will not refund application fees after the materials have been accepted.
4. Simultaneous applications to multiple Courses are not allowed. In this registration, the School will only accept one application per applicant.
5. Applicants may simultaneously apply only for the same Course in the April 2024 admission to the Master's Program, together with this registration.
6. Applicants who are also applying for April 2024 admission and are accepted in this registration will be excluded from the screening in the registration of April 2024 admission.
7. For applicants who have graduated from a foreign university, or who have received a bachelor's degree in a foreign country, their eligibility for enrollment may be checked, if necessary, after the announcement of examination results is issued. If the School deems that they do not satisfy the eligibility requirements stipulated by Kyoto University, their documents for enrollment will not be accepted even after their results have been announced as successful.

Submission of Application Materials in person

Date: Tuesday, June 20, 2023
10:00 a.m. - 5:00 p.m. (except noon to 1:30 p.m.)
Submit to: Administration Office (1st floor, Research Bldg. No. 8)
Graduate School of Informatics, Kyoto University
Yoshida-Honmachi, Sakyo-ku, Kyoto 606-8501 JAPAN
(See the campus map)

Submission of Application Materials by post

Date: Wednesday, June 7 - Tuesday, June 20, 2023
Application materials must arrive by 5:00 p.m.
Submit to: Student Affairs Division
Graduate School of Informatics, Kyoto University
Yoshida-Honmachi, Sakyo-ku, Kyoto 606-8501 JAPAN
TEL: +81-(0)75-753-4894, or 5500

8. Applicants with disabilities needing accommodations for the examination should request such accommodations in advance. Because advanced preparation is required, send a request letter to the above address stating the following information and attach a copy of a disability certificate or medical certificate, or bring the required information to the school office in person before Friday, June 9, 2023.

Required information:

- Applicant's name, date of birth, address, phone number, and e-mail address
- Desired Course and degree (Master's / Doctoral)
- Type and level of disabilities
- Accommodations requested

VII. Screening Procedure and Examination Schedule

1. The screening will be made on the basis of the application documents and results of examinations of scholastic ability (written/oral examinations). For applicants to the Intelligence Science and Technology Course; Social Informatic Courses; and Advanced Mathematical Sciences Course, eligibility for the oral examination will be screened by the written examinations.
2. The School will administer the examination following the schedule.
(Note that the schedule differs depending on the Course.)

Examination schedule

Applicants must carefully read the detailed information on the subjects and scope of the examinations, how to answer the questions, etc. specified in VIII. Application Groups and Supplementary Information on Examination Subjects below.

Course	Date	Time	Subject/Format
Advanced Mathematical Sciences	Saturday, July 15	10:00 - 11:30	Basic subjects
		13:00 - 14:30	Advanced subjects
		16:00 -	Oral examination (See note 1)
	Sunday, July 16		Alternative examination date (See note 2)

(Notes)

- 1) For the Advanced Mathematical Sciences Course, eligible examinees and the detailed schedule for the oral examinations will be posted on a bulletin board of the School office (1st floor, Research Bldg. No. 8) by 3:45 p.m. on Saturday, July 15, 2023. Admission is granted from those who qualify during the oral examination.
- 2) When it is difficult to conduct an examination due to emergencies such as weather warnings, the schedule may be postponed to the alternative examination date. In the event it is necessary to change the examination schedule, the School will place a notification on the website on the morning of the examination day (by 7:00 am).

Accordingly, make sure to check the website in advance: <https://www.i.kyoto-u.ac.jp/en/>

Course	Date	Time	Subject/Format
Intelligence Science and Technology	Monday, August 7	9:00 - 11:00 12:00 - 14:00	Fundamentals of informatics Specialized subjects
	Tuesday, August 8	15:00 -	Oral examination (see note 2)
	Wednesday, August 9 (See note 1)		Alternative examination date
Social Informatics	Monday, August 7	10:00 - 12:00 13:00 - 15:00	Specialized subjects Fundamentals of informatics
	Tuesday, August 8	10:00 -	Oral examination (see note 3)
	Wednesday, August 9 (See note 1)		Alternative examination date
Applied Mathematics and Physics	Monday, August 7	10:00 - 12:00 13:30 - 15:30	Basic subjects Specialized subjects
	Tuesday, August 8	10:00 - 12:00	Oral examination
	Wednesday, August 9 (See note 1)		Alternative examination date
Systems Science	Monday, August 7	10:00 - 12:00 13:00 - 16:00	Mathematics Specialized subjects
	Tuesday, August 8	10:00 -	Oral examination
	Wednesday, August 9 (See note 1)		Alternative examination date
Communication s and Computer Engineering	Monday, August 7	9:00 - 12:00 13:00 - 16:00	Problem Set A Problem Set B
	Tuesday, August 8 (See note 1)		Alternative examination date
Data Science	Monday, August 7	9:00 - 11:00 12:00 - 14:00	Fundamentals of informatics Specialized subjects
	Tuesday, August 8 (See note 1)		Alternative examination date

(Notes)

- 1) When it is difficult to conduct an examination due to emergencies such as weather warnings, the schedule may be postponed to the alternative examination date. In the event it is necessary to change the examination schedule, the School will place a notification on the website on the morning of the examination day (by 7:00 am). Be sure to check the website in advance: <https://www.i.kyoto-u.ac.jp/en/>
- 2) For the Intelligence Science and Technology Course, eligible examinees and the detailed schedule for the oral examination will be posted on a bulletin board of the School office (1st floor of Research Bldg. No. 8) by 1:00 p.m. on Tuesday, August 8, 2023.

- 3) For the Social Informatics Course, eligible examinees and the detailed schedule for the oral examination will be posted on a bulletin board of the School office (1st floor of Research Bldg. No. 8) by 9:30 a.m. on Tuesday, August 8, 2023.
3. The examination voucher will be sent by post in mid-July (early July for the Advanced Mathematical Sciences Course) to the address indicated on Address Label A (refer to IV. “Application Form and Supporting Materials”) as well as email address on Address Label A. If the examination voucher will not be delivered by Tuesday, July 31, 2023 (by Monday, July 10 for the Advanced Mathematical Sciences Course), make sure to inquire to the Student Affairs Division of the School by e-mail at: jyoho-kyomu@mail2.adm.kyoto-u.ac.jp
- Applicants residing outside Japan will be received PDF file of the scanned examination voucher via email to the address indicated on the application form as well. Print the PDF voucher and bring it at the examination room if the original voucher does not reach you.
4. Posting of information on the examination room and other related items
Make sure to check the information that has been posted in person. Inquiries by telephone will not be accepted.
- Advanced Mathematical Sciences
 - Time: From 9:15 a.m. on Saturday, July 15, 2023
 - Place: Bulletin board of the School office (1st floor, Research Bldg. No. 8)
(See the campus map)
 - Intelligence Science and Technology Course; Social Informatics Course; Applied Mathematics and Physics Course; Systems Science Course; and Communications and Computer Engineering Course
 - Time: From 1:00 p.m. on Friday, August 4, 2023
 - Place: Bulletin board of the School office (1st floor, Research Bldg. No. 8)
(See the campus map)
5. On the day of the examination, assemble in front of the examination room at least 20 minutes before the start of each examination. For the oral examinations, follow any separate instructions that may be provided by the relevant Course.
6. Important notes on the written examinations
- In the examination room, examinees should be sure to bring the examination voucher with them and to follow the proctor’s instructions.
During the examination, only the following items are allowed; black-lead pencils, mechanical pencils, a pencil sharpener, erasers, a ruler, a watch (with time functions only), handkerchiefs, and tissues (without a container).
Smartphones, mobile telephones and other items may not be placed on desks.
 - The use of dictionaries (including electronic dictionaries) is not permitted.
 - For the use of other reference materials, examinees must follow the instructions given by the relevant Course.
 - Examinees arriving late to the examination room will be permitted to enter the examination room within the first 30 minutes after the start of each examination.
 - For examinees who fail to sit an examination, the score to be given in that subject will be zero. Failure to sit an examination in two or more subjects will result in disqualification. Disqualified examinees may not sit any further examinations.
7. Important note on the oral examinations
Where an examinee is scheduled to take an oral examination, failure to attend will result in disqualification.
8. Due to the outbreak of COVID-19, dates and schedules stated in these guidelines might change depending on how the situation develops. If schedules or other information change, we will announce any changes on our website: <https://www.i.kyoto-u.ac.jp/>

VIII. Application Groups and Supplementary Information on Examination Subjects

Application Groups:

Because there is a capacity limit in each Application Group, applicants may not be able to enter the group that is their first choice. Therefore, in accordance with the department instructions, applicants must enter the groups in the order of their preference in the prescribed fields on the appended Application Form. (For the Advanced Mathematical Sciences, the preferred groups will be confirmed during the oral examination, at which time, changes can be made.) Applicants will be regarded as having no desire to be attached to any groups for which they do not enter a preference, and will not be accepted to such groups even if their examination scores are higher than the minimum scores for acceptance.

In principle, once the Application Form for Admission has been accepted, no subsequent revision and/or altering to the application details will be allowed. Therefore, applicants must carefully enter the form.

Note: Application Groups of the Course marked with an asterisk (*) are not included in this registration; then may not be selected as preferred groups.

Prior to application submission, make sure to check the “Application Group Guide” on our website at: <http://www.i.kyoto-u.ac.jp/en/admission/application.html>

(1) Intelligence Science and Technology Course

a. Supplementary information on the Fundamentals of Informatics

Examinees will be asked two questions one each on the following subjects. Answer all four questions.

- Linear Algebra, Calculus
- Algorithms and Data Structures

b. Supplementary information on the Specialized Subjects

Examinees must select and answer two questions from six questions one each on the following subjects.

- Cognitive Neuroscience, Cognitive and Perceptual Psychology (See Note 1)
- Statistics
- Pattern Recognition, Machine Learning
- Information Theory
- Signal Processing
- Formal Language, Theory of Computation, Discrete Mathematics

c. Supplementary information on written examinations

Questions are provided in both Japanese and English. Examinees can answer in either Japanese or English.

d. Supplementary information on English requirements

In accordance with the types of submitted English proficiency tests, (TOEIC/TOEFL/IELTS), the following formula will be applied to determine the English score (out of 50 points) for this selection.

- English score = $0.056 \times$ Submitted TOEIC score - 13.377
- English score = $0.417 \times$ Submitted TOEFL score
- English score = $7.361 \times$ Submitted IELTS score - 9.826 (Maximum score will be 50 points)

e. Supplementary information on oral examinations

Examinees will be asked to take an oral examination in Japanese or English regarding background knowledge and planned research in the first-choice application group. Note that examinees required to take this oral exam will be determined based on the written examination results and English proficiency test scores.

f. Supplementary information on admission decisions

Admission decisions are based upon scores in the written examination, English proficiency test score, oral examination (if scheduled), and the admission quota for each Application Group. The score weighting is as follows: Fundamentals of Informatics (100-point scale), Specialized Subjects (100-point scale), English (50-point scale), and the oral examination (200-point scale).

g. Application groups and research fields

List the groups to which you would like to belong in the order of your preference up to seven groups. There is no need to list those to which you do not wish to belong. IST-4a and IST-4b are each considered to be a separate application group.

Application Groups	Research Fields
IST-1	Neuroinformatics , Brain Decoding, Brain-Machine Interface, Brain Imaging, Computational Neuroscience, Vision Science, Biological Psychiatry, Social Neuroscience, Neuroeconomics
IST-2	Psychoinformatics , Higher Brain Function, Cognitive Neuropsychology, Cognitive Interface, Mental State Estimation, Cognitive Science
IST-3	Cognitive Informatics , Vision Science Psychophysics, Functional Brain Measurements, Media Technologies Using Human Visual Characteristics, Cognitive Neural Dynamics
IST-4a (See note)	Computational Cognitive Neuroscience , Cognitive Neuroscience, Decision Making and Reinforcement Learning, Neurocomputational Mechanism of Social Functions, Brain-based Intelligence and Machine Learning, Human fMRI Experiments with Quantitative Methods
IST-4b (See note)	Computational Cognitive Neuroscience , Emotion Sensing, Facial Expression Recognition, Human-robot Interaction, Experimental Psychology, fMRI Measurement, Physiological Measurement
IST-5	Computational Intelligence , Knowledge Discovery, Computational Learning Theory, Optimization for Machine Learning
IST-6	Collective Intelligence , Machine Learning, Data Mining, Human Computation
IST-7 *	Conversational Informatics
IST-8	Language Media Processing , Language Information Processing, Language Analysis, Language Synthesis, Machine Translation, Information Retrieval
IST-9	Speech and Audio Processing , Speech Recognition and Understanding, Music Information Processing, Human Robot Interaction, Statistical Signal Processing and Pattern Recognition
IST-10	Computer Vision , Visual Information Processing, Visual Intelligence
IST-11	Video Media , Human Movement and Behavior Understanding, Interaction and Embodiment, Motion and Action Assist
IST-12	Text Media , Language Understanding, Language Generation, Language Knowledge Acquisition, Verbalizing for Thought and Understanding, Symbol Grounding
IST-13	Biological Information Networks , Bioinformatics, Mathematical and Computational Biology, Complex Networks

Adjunct Units (Note: IST-4a and IST-4b)

To promote education and research on computational theory to understand the brain, which is a fundamental concept for Intelligence Science and Technology, the Course has established the “Computational Theory Cognitive Neuroscience Science Adjunct Unit” jointly with RIKEN Institute.

In addition to members of the Course, the Adjunct Unit involves staff from our partner institutions, RIKEN Center for Brain Science (Wako city, Saitama) for IST-4a and RIKEN Robotics Project (Keihanna Science City) who provide guidance and assistance under the supervision of the Course. The requirements for registering and the completing the program are the same as for other application groups. For details, please refer to the Course’s website below.

For the application group, clearly state either IST-4a or IST-4b.

Note: Conversational Informatics (IST-7)

Do not select this group marked with asterisk (*) because it is not recruiting in this admission.

h. Course website:

<https://www.ist.i.kyoto-u.ac.jp/>

Note 1) Please refer to the following book for the Specialized Subjects of cognitive neuroscience and perceptual/cognitive psychology.

The Student's Guide to Cognitive Neuroscience, Fourth Edition, Jamie Ward,
Psychology Press, ISBN-10: 1138490547, ISBN-13: 978-1138490543

(2) Social Informatics Course

a. Supplementary information on specialized subjects

Two or more questions will be provided for each of the four topic areas listed below (i.e., “computer science”, “biology and environments”, “disaster management systems”, and “medical information”).

Computer science	Artificial intelligence, databases, information systems, computer software, information networks, data structure, algorithms, pattern recognition, information education, human interface
Biology and environments	Biology, environmental assessment, environmental problems, data collection methods, biostatistics
Disaster management systems	Planning, spatial informatics, disaster management engineering, disaster psychology, risk communication, risk management
Medical information	Overview of medical informatics, medical and biological engineering, hospital management

The applicants must answer three questions, which should be chosen based on their first preference for the Application Group as outlined below. If an applicant wrongly answers any questions from a Subject Field which is not his/her first preference, the applicant will receive zero points for the questions.

Application Groups	Subject Fields
SI-2, SI-3, SI-4, SI-5, SI-6, SI-14, SI-15	Computer science
SI-8, · 9	Biology and environments
SI-10, SI-11, SI-12	Disaster management systems
SI-13	Medical information

b. Supplementary information on fundamentals of informatics

In the written examination on fundamentals of informatics, five questions will be provided from the following textbook. The applicants must select and answer three of them.

Computer Science: An Overview (12th Edition)

Author: Glenn Brookshear, Dennis Brylow

Publisher: Prentice Hall

ISBN-10: 0133760065

ISBN-13: 978-0133760064

*Note that Chapter 10: “Computer Graphics” is excluded from the scope of the exam.

c. Supplementary information on written examinations

Questions are provided in both Japanese and English. The applicant can give answers either in Japanese or in English.

d. Supplementary information on English Proficiency Test

The score weighting is 150 points. TOEIC, TOEFL, and IELTS scores will be converted to a 150-point scale.

e. Supplementary information on oral examinations

Oral examination will be held from 10:00 a.m. on August 8. Eligibility for oral examination will be determined on the basis of the results of the written examinations on August 7.

The Course places importance on applicants' communication skills. In the oral examinations, the applicants will be required to briefly give an oral presentation about their submitted "Statement of Personal Objectives" in Japanese or English within five minutes without any devices such as an LCD projector. Then they will be questioned about their research progress and plans, etc. in the Master Program. Please see the next section for information on the "Statement of Personal Objectives".

f. Supplementary information on instructions and format of the Statement of Personal Objectives

Instructions

In the oral examination, the applicants will be questioned, after their five minutes' presentation, about their educational background, motivations, and aspirations for study after admission according to the submitted "Statement of Personal Objectives." They are not allowed to use any devices such as PC, LCD projector, OHP, and so on in their presentation.

Copies of the "Statement of Personal Objectives" will be distributed to the examiners. (The applicants do not need to prepare them.)

Because the examiners' questions will be referred to the "Statement of Personal Objectives," the statement should be clear and concise. (Use diagrams and/or tables with captions to summarize the main points).

The copies will be printed in black and white (Note that colors may not be identified in the black and white copies).

Format

Paper size: A4

Pages: 2 pages or less with one-side printing

Specify the name of the applicant at the top of the sheet. It is optional for the applicants to describe specific research topics.

Margin: 2.5 cm or more for the top, bottom, left and right respectively

Font size: 10.5 or more.

Printed PowerPoint slides should cover an area of more than 1/4 of a page.

g. Application groups and research fields

The applicants should fill in the application groups to which they hope to belong in order of their preference. They do not need to specify any groups that are different from their preference.

Applicants can fill in 7 groups at most in order of their preference.

Application Groups	Research Fields
SI-2	Human Robot Interaction, Intelligent Robotics, Wireless Sensor Networks, Interaction, Communication Robots, Artificial Intelligence, Cyber Physical System
SI-3	Environment for Sharing All Useful Information in the World, Web Information Analysis, Social Network Analysis, Crowdsourcing, Information Retrieval, Databases, Information Access User Interface
SI-4	Human Computer Interaction, User Experience, Inclusive Design, Well-being, Social Computing, Understanding of Human behavior
SI-5	Multiagent Systems Computational Mechanism Design, Social Computing, Decision Making/Consensus Building, Collective Intelligence, Artificial Intelligence, Service Computing
SI-6	Establishing Secure and Reliable Information Society, Encryption, Authentication, Crypto Currency, Cloud Security, Privacy
SI-8 · 9	Utilization and Conservation of Biological Resources, Conservation and Utilization of Ecosystems, Evaluation of Agricultural Production Systems, Bio-Logging, Conservation of Endangered Species, Assessment of Ecosystem Service, Monitoring of Hydrological and Biogeochemical Cycles, Archive and Utilization of Environmental Information
SI-10	Design of Integrated Disaster Management Strategies, Disaster Risk Management, Disaster Economic Analysis, Disaster Recovery, Disaster Risk Management Planning, Disaster Risk Governance, Disaster Risk Communication, Disaster Risk Control, Disaster Risk Finance
SI-11	Design of Disaster Risk Communication: Disaster Prevention Psychology, Disaster Information, Disaster Culture, Disaster Prevention Education, Disaster Recovery, Disaster Prevention System Theory, Disaster Risk Management Governance
SI-12	Design of Disaster Information Systems, Crisis Management, Disaster Response, Data Collection in Disaster, Rescue Activities, Evacuation Behavior, Disaster Risk Communication, GIS, Spatio-temporal DB, Data Science for Disaster Risk Management
SI-13	DX of Health Care, Ubiquitous Hospital Information System, Spatial Recognition of Clinical Environments, Electronic Medical Record, EHR/PHR, Data Health, Medical AI, Hospital Management, Telemedicine, Wearable Biometric System, Mobile Health, Medical Virtual Reality/Augmented Reality
SI-14	Educational/Learning Technologies, e-Learning Systems, Learning Analytics, Educational Data Science, Educational Big Data, Mobile/Ubiquitous Learning Environments, Collaborative Learning Environments, Intelligent Education/Learning Support Systems
SI-15	Large-scale Distributed Systems, Peer-to-peer, Blockchain, Internet, Network, Distributed Machine Learning, Data Engineering, Social Graph Analysis, Distributed Database, Middleware, Computing System

h. Supplementary information on admission decisions

Admission decisions will be comprehensively made based on the followings: total scores of written examination and oral examination, acceptable admission quota for each application group. The four subjects are weighted as follows; fundamentals of informatics (150-point scale), specialized subjects (300-point scale), English (TOEFL/TOEIC/IELTS scores converted to a 150-point scale), oral examination (100-point scale).

i. Course website

<https://www.soc.i.kyoto-u.ac.jp/>

(3) Advanced Mathematical Sciences Course

a. Supplementary information on written examinations

Basic subjects (150 points)

The examination will consist of five problems in total, including two required problems and three selective problems. During the examination, the examinee should choose one problem from the set of three selective problems and answer a total of three problems, including the two required problems and the chosen selective problem.

- Required problems

The required problems will be based on linear algebra and calculus (including definite integrals using residual theorem, etc.) studied by first- and second-year students in faculties of science and/or engineering at Japanese universities.

- Selective problems

The selective problems will be based on topics related to linear algebra, calculus, as well as fundamentals of ordinary differential equations, complex analysis in one variable, and mechanics of particles, systems of particles, and rigid bodies.

Specialized subjects (150 points)

Five problems in total will be given from the subjects “Analysis”, “Applied Mathematics”, “Engineering Mathematics/Computational Mechanics”, “Statistical Mechanics”, and “Fluid Mechanics”. Each examinee should choose one problem from these five problems and answer it during the examination. The specific content referred to as “Applied Mathematics” and “Engineering Mathematics/Computational Mechanics” are as follows:

Applied Mathematics:

- Advanced topics on linear algebra and calculus (including vector analysis)
- Complex function theory in one variable
- Ordinary and partial differential equations (elementary level)
- Fourier analysis
- Topics related to numerical analysis and computation

Engineering Mathematics/Computational Mechanics:

- Mathematical topics (such as vector analysis, complex analysis, Fourier analysis, etc.) studied in undergraduate engineering departments, as well as topics related to numerical computation. Calculation of simple definite integrals using residue theorem will not be given as problems, as a general rule.

For your reference, sample problems that can be used to prepare for the exam are posted on the website of the Course. (See the item d. below.)

b. Supplementary information on oral examination

Applicants must first qualify to take the oral examination based on the total score of both basic and advanced subjects, as well as the submitted application materials. The qualified applicants will then be selected for admission and their application groups will be decided based on the oral examination (pass/fail).

Examinees are questioned about their motivation, academic background (especially graduation research), preferred area for research and study, and the content of the written examination.

c. Application Groups and Research Fields

The examinee should choose the following groups to which he/she would like to belong, in the order of the preference **up to three**.

Application Groups	Research Fields
AMS-1	Applied Analysis, Inverse Problems, Nonlinear Problems, Partial Differential Equations, Numerical Analysis, Probability Theory, Fractal Analysis
AMS-2	Nonlinear Dynamics, Nonlinear Oscillations, Computational Physics
AMS-3	Theoretical Neuroscience, Non-equilibrium/Nonlinear Physics, Coupled Dynamical Systems with Networks
AMS-4	Numerical Simulation, Computational Mechanics, Computational Engineering
AMS-5	Fluid Dynamics, Rarefied Gas Dynamics, Numerical Simulation of Fluids
AMS-6	Statistical Signal Processing

The order of preference will be reconfirmed during the oral examination, and changes to the preferences listed on the application will be allowed at that time.

d. Course Website

<https://www.acs.i.kyoto-u.ac.jp/>

Note:

While ‘English’ is not included as an examination subject, English proficiency is necessary for studying and conducting research in the Course.

(4) Applied Mathematics and Physics Course

a. Supplementary information on written examinations

The subject areas covered in the examinations and the point distribution are as follows.

Basic subjects (100 points each / 200 points in total)

1. Calculus
2. Linear Algebra

Specialized subjects (100 points each / 200 points in total)

1. Complex Functions/Fourier Analysis: Calculus of Complex Functions, Residue Theorem and Its Applications, Fourier Series, Fourier Transform, etc.
2. Graph Theory: Graph Search, Shortest Path Problems, Minimum Spanning Tree Problems, etc.
3. Convex Optimization: Convex Sets and Convex Functions, Linear Programming (except for Simplex Method), Karush-Kuhn-Tucker Conditions, Duality Theorem, etc.
4. Control Theory: Classical Control Theory (Transfer Function, Frequency Response, Stability Criterion, Feedback Compensation, etc.) and Modern Control Theory (Controllability, Observability, Stability, Observer, Optimal Regulator, etc.)
5. Statistical Mechanics: Fundamentals of the Statistical Mechanics (Statistical Independence, Ergodicity, Partition Function, Boltzmann Distribution, Time Correlation of Fluctuations, etc.)
6. Ordinary Differential Equations: Elementary Methods, Fundamental Theorems, Higher-Order Differential Equations, Systems of Differential Equations, etc.

Each applicant must answer all two questions for the basic subjects. He or she must choose and answer two of the six questions for the specialized subjects.

Questions are provided in both Japanese and English.

Give answers in either Japanese or English.

b. Supplementary information on English requirements

An applicant's English skills are evaluated out of 100 points. TOEFL, TOEIC and IELTS scores are converted to CEFR (Common European Framework of Reference for Languages) levels. A CEFR level of C1 or higher is given 100 points, B2 is given 75, B1 is given 50, lower than B1 is given 25, and no submission of scores results in 0 points. The minimum scores to achieve C1, B2, and B1 in CEFR levels are shown in the following table.

CEFR	TOEFL iBT	TOEIC	IELTS
C1	95	945	7.0
B2	72	785	5.5
B1	42	550	4.0

c. Supplementary information on oral examination

At the oral examination, each applicant is asked about his/her motivation for applying, undergraduate education, preferred field of specialization, and career goals after graduation. The oral examination is conducted in either Japanese or English. Applicants are selected for admission based on the written/oral examinations, and admission quota for each Application Group.

d. Application Groups and Research Fields

Enter the groups to which you would like to belong in the order of your preference.

There is no limit to the number you may enter.

Application Groups	Research Fields
AMP-1	Applied Mathematical Analysis, Soliton and Integrable Systems, Matrix and Eigenvalue Algorithms
AMP-2	Discrete Mathematics, Combinatorial Optimization Algorithms, Graph Networks, Computational Complexity
AMP-3	System Optimization, Mathematical Programming Theory and Application, Operations Research
AMP-4	Control Systems Theory, Robust/Optimal Control, System Identification/Modeling
AMP-5	Physical Statistics, Basic Theory of Nonlinear Dynamical Systems and Complex Systems, Fundamentals and Applications of Stochastic Processes
AMP-6	Dynamical Systems, Differential Equations, Mathematical Physics
AMP-7	Applied Mathematical Modeling, Modeling Theory, Social Information System Modeling

e. Course website

<http://www.amp.i.kyoto-u.ac.jp/>

(5) Systems Science Course

The following sections (a. - c.) outline the scope of the questions on the examination.

a. Supplementary information on the mathematics (120 points)

The examination will contain questions from the fields of “Differential and Integral Calculus” and “Linear Algebra”.

b. Supplementary information on the specialized subjects (100 points each / 200 points total)

The examination will contain questions on the subjects of “Complex Function Theory”, “Probability and Statistics”, “Control Engineering” and “Signal Processing”. Examinees must select two fields on their own choice. The specific topics in these fields are as follows:

Complex Function Theory: Complex planes, Holomorphic functions and their properties, Complex integral, Residue and real integral, Power series expansion, Conformal mapping, etc.

Probability and Statistics: Basic items related to probability and statistical inference

Control Engineering: Topics in classical control theory, including transfer functions, Bode diagrams, stability criteria, root loci, lead-lag compensation (excluding nonlinear control and sampled-data control)

Signal Processing: Fourier Analysis, Z-transform, Linear filters, etc.

c. Supplementary information on the oral examination (150 points)

In the oral examination, examinees will be asked questions about their research themes and plans, their university studies (currently enrolled or graduated), their preferred field of specialization, and postgraduate career plans.

d. Supplementary information on English requirements

English skills are worth 100 points; the TOEFL score is converted to a 100-point scale.

e. Supplementary information on the written examination

Questions are provided in Japanese. Examinees can answer in either Japanese or English.

f. Supplementary information on admission decisions

The number of successful applicants will be determined based on the scores of the written examination, English skills, and the oral examination, as well as the admission quota for number of students accepted in each application group.

g. Application groups and research fields

Examinees should choose the groups to which they would like to apply in the order of the preference. There is no limit to the number they may enter; do not enter the application groups you do not wish to apply

In case SS-9 is chosen as preferred application groups, please follow the notes below.

Application Groups	Subgroups	Research Fields
SS-1		Mechanical Systems Control, System Control Theory, Network System, Swarm Intelligence
SS-2		Human-Centered Systems, Process Data Analysis & Process Control, Biological Information Processing, Agricultural Systems Engineering
SS-3		Integrated Dynamical Systems, Optimal Control, Nonlinear Systems, Distributed Control, Stochastic Systems
SS-4		Mathematical Information Systems, Statistical-Mechanics-Based Information Science, Information and Communication Theory, Statistical Learning Theory
SS-5		Statistical Intelligence, Statistics, Machine Learning, Data Science
SS-6		Learning Machines, Robotics, Humanoid Motor Learning, Human Behavior Estimation
SS-7		Integrated Systems Biology, Reinforcement Learning, Brain Learning Model, Brain Machine Interface
SS-8 *		Biomedical Engineering, Medical Systems, Medical Image Analysis
SS-9	(a)	Computational Neuroscience, Brain Network Interface
	(b)	Information Processing of Neural Circuits, Free Energy Principle, Attractor Dynamics
	(c) *	Basal Ganglia, Neuromodulators, Evolutionary Robotics

Note 1: Do not select application groups and subgroups marked with asterisks (*) as they are not recruiting this admission.

Note 2: The application groups in SS- 9 correspond to adjunct units described in “ h. Adjunct Units” below. Upon choosing a group in SS- 9 specify the subgroup from (a) to (d). Examinees are able to choose, for example, “SS- 9 (a)”, and enter it with the other application groups to which they would like to apply, as preference on the application form.

h. Adjunct Units

In order to educate high-quality human resources with a broad perspective in the sphere of systems science, the Course has established the “Computational Neuroscience Adjunct Unit” jointly with ATR Computational Neuroscience Laboratories, RIKEN Center for Brain Science, and Okinawa Institute of Science and Technology Graduate University .

In addition to members of the School faculty, the Adjunct Unit involves staff from the partner institutions, who provide guidance and assistance under the supervision of the School faculty. The other requirements for registering for and completing the courses are the same as for the School Course . For details, please refer to the webpage below.

Course Website

<http://www.sys.i.kyoto-u.ac.jp/en/index.html>

(6) Communications and Computer Engineering Course

a. Supplementary information on Problem Set A

A total of four questions, one from each of the four fields below will be provided.

- Mathematics (Calculus, Linear algebra)
- Logic circuit
- Information theory
- Computer architecture

b. Supplementary information on Problem Set B

Six questions will be given from the following thirteen fields (scope of questions in parentheses). Each applicant must select and answer a total of three questions from the given six questions.

Mathematics (Complex function, Fourier analysis, Differential equation)

- Electromagnetic theory
- Electric and electronic circuits
- Data structures and Algorithms
- Programming languages,
- Graph theory
- Communication engineering
- Foundational theories of communication
- Radio engineering
- Computer systems
- Theory of automata and algorithms
- Programming language implementation and OS
- Computation and logic

c. Supplementary information on written examinations

Questions are provided in both Japanese and English. Give answers either in Japanese or in English.

d. Application groups and research fields

Enter the groups to which you would like to belong in the order of your preference. There is no limit to the number of the groups you may enter.

Application groups	Research Fields
CCE-1	Algorithms, Discrete structures, Computational complexity, Logic circuits, Emerging computing
CCE-2 *	
CCE-3	Computer software, Theory of programs, Programming languages
CCE-4	Digital communications, Mobile communications, Radio signal processing

CCE-5 *	
CCE-6	Information and communication network, Communications system architecture, Traffic analysis and control
CCE-7	Electrical system design automation, Parallel processing architecture, LSI architecture and System synthesis
CCE-8	Semiconductor integrated system design, Low power integrated circuits design, Integrated Systems for Bio-medical Applications
CCE-9	Integrated System Architecture, Highly-Reliable Integrated System, Integrated System Application
CCE-10	Radar remote sensing engineering, Radar atmospheric physics, Equatorial space and upper atmospheric physics
CCE-11	Optical-radio wave atmospheric observations, Equatorial atmospheric science, Atmospheric environmental measurement
CCE-12	Supercomputing, High-performance parallel computing, Power-saving computing and scheduling
CCE-13	Network Media, Internet, Information security, Cloud Edge Computing, Distributed algorithm

Do not select Application Groups marked with an asterisk (*) as they are not recruiting this year.

e. Admission Decisions

To select “Qualified Applicants”, applicants are judged on their combined total of the scores of the TOEFL/TOEIC test (converted to a 200-point scale) and our written examinations (800-point scale).

Qualified applicants are assigned, in order of their combined scores, to their preferred application group as indicated on their application forms. Their order of preference is taken into consideration. They are not assigned to an application group that they did not include in their list of preferred groups. A qualified applicant who has been assigned to an application group is defined as a successful applicant.

Score conversion of TOEFL iBT to TOEIC is as follows:

$$\text{Converted score} = \min(990, 7.453 * (\text{TOEFL iBT score}) + 237.0)$$

f. Course website

<http://www.cce.i.kyoto-u.ac.jp/index-e.html>

(7) Data Science Course

a. Supplementary information on the mathematics (100 points)

The two basic questions on each of the following two fields are provided, and examinees must answer all four questions.

- Linear Algebra, Differential and Integral Calculus
- Algorithms, Data Structure

b. Supplementary information on the Specialized Subjects (100 points)

We will give one question from each of the following four areas. Examinees must select and answer two questions from four area.

- Statistics
- Pattern Recognition and Machine Learning
- Information Theory
- Signal processing

c. Supplementary information on written examinations

Questions are provided in both Japanese and English. Examinees can answer in either Japanese or English.

d. Supplementary information on English requirements

The score weighting is 50 points. TOEFL score will be converted to a 50-point scale.

e. Application groups and research fields

Enter the groups to which you would like to belong in the order of your preference. There is no limit to the number of the groups you may enter.

Application Groups	Research Fields
DS-1	Statistical Intelligence, Statistics, Machine Learning, Data Science
DS-2	Mathematical Statistics, Computational Algebraic Statistics, Bayesian Statistics, Data Science
DS-3	Mathematical Information Systems, Statistical-Mechanics-Based Information Science, Information and Communication Theory, Statistical Learning Theory
DS-4	Statistical Signal Processing
DS-5	Machine Learning with Discrete Structure, Machine Discovery in Natural Science, Educational Data Science, Educational Informatics
DS-6	Collective Intelligence, Machine Learning, Data Mining, Human Computation
DS-7	Healthcare-related Data Science, Healthcare Digital Transformation, Data Science in Visual Function, Data Health
DS-8	Statistical Data Mining and Pattern Recognition

f. Webpages the Course

<https://www.ds.i.kyoto-u.ac.jp/>

g. Supplementary information on admission decisions

Admission decisions will be comprehensively made based on the total scores of written examination and English score, and acceptable admission quota for each application group.

IX. Announcement of Successful Applicants

A list of the examinee's numbers of successful applicants will be posted on the bulletin board as shown below. Results will also be sent by post to successful applicants by the dates indicated below. Inquiries by telephone or any other means will not be accepted.

- Advanced Mathematical Sciences

Date: 3:00 p.m. on Friday, July 21, 2023

Place: Bulletin board of the School office (1st floor, Research Bldg. No. 8)

In addition to the above, results will be published on the website of the School from 3:00 p.m. on Friday, July 2 to 3:00 p.m. on Friday, July 28, 2023.

- Intelligence Science and Technology Course; Social Informatics Course; Applied Mathematics and Physics Course; Systems Science Course; and Communications and Computer Engineering Course

Date: 3:00 p.m. on Friday, August 18, 2023

Place: Bulletin board of the School office (1st floor, Research Bldg. No. 8)

For these five Courses, in addition to the above, results will be published on the website of the School from 3:00 p.m. on Friday, August 12 to 3:00 p.m. on Friday, August 25, 2023:

<http://www.i.kyoto-u.ac.jp/admission/pass.html> (Japanese)

<http://www.i.kyoto-u.ac.jp/en/admission/pass.html> (English)

We will send enrollment procedures to the all successful students on early September.

X. Admission Fee and Tuition

Admission Fee: 282,000 yen (tentative)

Annual Tuition: 535,800 yen (tentative)

Notes:

- 1) Japanese Government (MEXT*1) Scholarship Students are exempt from paying the admission fee and tuition.

*1 Ministry of Education, Culture, Sports, Science and Technology of Japan

- 2) If the admission fee and tuition are revised after enrollment, the revised amount will be applied from the time at which the revision comes into effect.

XI. Entrance Examination Support

Applicants may access further information regarding support for entrance examinations. Please see the home page of the Graduate School of Informatics (<https://www.i.kyoto-u.ac.jp/>) for details on fees and application deadlines.

XII. Handling of Personal Information

Personal information for this application, such as name, date of birth, address, and information on admission decisions, shall be handled according to the Act on the Protection of Personal Information Held by Private Institutions and the Regulations on the Protection of Personal Information of Kyoto University.

Such information acquired through the application process will be used only for administrative purposes including:

- 1) entrance examinations
- 2) enrollment procedures, scholarships, etc.
- 3) administrative preparation for accepting students

How to obtain a copy of the guidelines and application forms for admission:

For Applicants Residing in Japan

Receive the admission guidelines at the School office. In case that an applicant wishes to receive the guidelines by post, the applicant must enclose a self-addressed “Letter Pack (レターパック)”, and send it to the address for “inquiries” shown below, stating “Request for the Guidelines for October 2023 Admission to the Master’s Program” clearly in red on the envelope. The Application Form and Supporting Materials are appended to the admission guidelines (in Japanese) which are necessary at the time of application for entrance examination.

For detail about the “Letter Pack(レターパック)”, please visit:
https://www.post.japanpost.jp/service/letterpack/index_en.html

Inquiries:

Student Affairs Division (1st floor, Research Bldg. No. 8)

Graduate School of Informatics, Kyoto University

Yoshida-Honmachi, Sakyo-ku, Kyoto 606-8501 Japan

E-mail: [jyoho-kyomu@mail2.adm.kyoto-u.ac.jp](mailto: jyoho-kyomu@mail2.adm.kyoto-u.ac.jp)

Tel: +81-(0)75-753-4894, or 5500

Monday - Friday,

9:00 a.m. - 5:00 p.m. (except noon to 1:00 p.m.)

April 2023