

Tohoku University
Graduate School of Information Sciences
2020 Three-Year Doctoral Program Admission Guidelines
(October 2020 Advancement and Transfer Admissions)

Examination dates: 25-27 August 2020

June 2020

The Graduate School of Information Sciences (GSIS) consists of four departments: Computer and Mathematical Sciences, System Information Sciences, Human-Social Information Sciences and Applied Information Sciences.

GSIS aims not only to conduct cutting-edge education and research within these various academic disciplines, but also to advance wide-ranging interdisciplinary research. Students can therefore opt to engage in areas other than their original speciality. We welcome applications from ambitious individuals aspiring to create “Information Science” for the new era.’

Admission Policy

To foster individuals who can contribute to GSIS’s goal of creating “New Information Science,” we promote the acceptance of students who aim to further develop the fruits GSIS has reaped so far, students who aspire to actively pursue research across a range of disciplines, students hoping to broaden their research area, and overseas students and mature students from diverse backgrounds.

Assistance Program for Doctoral Students

As of FY2006, GSIS has been operating an assistance program for doctoral students with the aim of providing economic support and a suitable learning environment for graduate students with a high level of specialization.

<For details, please contact GSIS Educational Affairs Section [Kyoumu Kakari].>

1. Recruiting departments and selection category

Department	Number of students sought			
	Advancement	General transfer-admission selection	Transfer-admission selection for mature students (Note 2)	Transfer-admission selection for overseas students, etc. (Note 3)
Computer and Mathematical Sciences	Limited	Limited	Limited	Limited
System Information Sciences	Limited	Limited	Limited	Limited
Human-Social Information Sciences	Limited	Limited	Limited	Limited
Applied Information Sciences	Limited	Limited	Limited	Limited

Note 1: Applicants who have completed the two-year GSIS program (master degree program) or a professional degree program and are advancing to the three-year doctoral course.

Note 2: The status of mature students is granted to those who have worked full time for more than 2 years in principle (see Note 4 below). In case that applicants have less than 2 years of work experience, those who will work full time after enrolment and meet one of the qualifications in “2. Applicants requirements” are subject to this selection (see p.5).

Note 3: Those eligible to apply for transfer-admission selection for overseas students, etc. are current overseas students and the students who have received education in higher educational institutions abroad, and who at the same time meet one of the requirements described in “2. Application Requirements” (hereinafter referred as “overseas students, etc.”).

Note 4: “Mature students” are those who have experience as technically skilled workers, teachers, researchers, etc. in public office, educational institutions and private companies, in principle. An individual can be classified as a mature student even without such previous experience. For individual cases, contact GSIS Educational Affairs Office.

Note 5: All those wishing to apply as transfer students should consult beforehand with GSIS Education Affairs Section and with their prospective supervisor to confirm their research plans after transfer admission.

2. Application requirements

- 1) Only those students who are expected to complete GSIS two-year program (master degree program) or a professional degree program in September 2020 may apply as advancing students.
- 2) In order to apply as a transfer student, applicants must satisfy one of the following prerequisites.
 - (1) Those persons who have a master’s degree or a professional degree (including those who are expected to acquire such a degree by September 2020).
 - (2) Those persons who have acquired a degree equivalent to a master’s degree or a professional degree (including those who are expected to acquire such a degree by September 2020) at a graduate school in another country.
 - (3) Those persons who have completed, while in Japan, a course of study through a correspondence course provided by a foreign school and have been awarded a degree equivalent to a master’s degree or a professional degree (including those who are expected to acquire such a degree by September 2020).
 - (4) Those persons who have completed a master’s course in an educational institution in Japan, which is (i) recognized under the education system of a foreign country as operating a graduate school program and (ii) otherwise designated by the Minister of Education, Culture, Sports, Science and Technology (MEXT Minister) of Japan, and have been awarded a degree equivalent to a master’s degree or a professional degree (including those who are expected to acquire such a degree by September 2020).
 - (5) Those who have completed programs in United Nations University, and who have received a degree comparable to a Master’s (including those who are planning to finish the enrolled program by September of 2020.)
 - (6) A student who enrolled in overseas educational institutions, graduate schools or United Nations University, passed the tests or screenings stipulated in the Standards for the Establishment of Graduate Schools (Ordinance of the Ministry of Education No. 28 of 1974) and are expected to have an equal to or greater academic performance than those who have completed a master's degree. Degrees expected to be awarded by September 2020 will be given consideration.
 - (7) Those persons designated by the MEXT Minister (Public Notice of the Ministry of Education No.118 of 1989).

- (i) University graduates who have engaged in research for two or more years at universities or research institutes, etc., and who are expected by GSIS on the basis of research results, etc., to have attained a level of scholastic achievement equivalent to or greater than those with master's or professional degrees.
- (ii) Those who have completed 16 years of education in a foreign country or who have completed in Japan a study program equivalent to 16 years of education in a foreign country through a correspondence course provided by a school in that country, and have engaged in research for two or more years at universities or research institutes, etc., and who are expected by GSIS on the basis of research results, etc., to have attained a level of scholastic achievement equivalent to or greater than those with master's or professional degrees.
- (8) Other students who, on the basis of an individual screening, are expected by GSIS to have a level of scholastic attainment equivalent to or above those with master's or professional degrees, and who will be at least 24 years old by September 2020.

Note 6: As those wishing to apply under (7) or (8) above will be subject to a prior documentation screening, they should consult beforehand with GSIS Educational Affairs Section and their prospective supervisor, submitting the documentation stipulated by GSIS by 18 June 2020.

3. Receipt of applications

Applications must be received between 8-16 July 2020. The reception is open from 9:00AM to 4.30PM. Mailed applications must reach us no later than 16 July 2020.

Receipt of applications/ mailing address:

Educational Affairs Section
 Graduate School of Information Sciences Tohoku University
 Aramaki-Aza Aoba 6-3-09, Aoba-ku Sendai 980-8579 JAPAN
 Tel: 022-795-5814

4. Application procedure

The documents necessary for application are as follows.

For those applying for transfer admission under (7) or (8) above, the documentation submitted for screening does not need to be re-submitted. Advancement applicants do not need to pay an application fee.

GSIS students applying for advancement

No.	Documentation	Details
1	Advancement application form and CV	Use GSIS forms.
2	Written consent to take exam	If you are currently employed, written consent to take the entrance examination (no set format, but a company seal, etc. are required) issued by the head of your division. The written consent to take the entrance examination is necessary only if you will continue to be employed after entering this school.
3	Envelope for official correspondence	Use the envelope designated by GSIS. (Enter name, address, and postcode and attach a 780 yen stamp.) If you wish to receive the return envelope at a location within Tohoku University, do not attach a stamp but instead write 'Within University' in red ink.

Note 7: Where your current and proposed supervisors are different, please submit an academic transcript.

Transfer-admission applicants and applicants wishing to advance from other departments in Tohoku University

No.	Documentation	Details
1	Advancement/transfer application form and CV	Use GSIS forms.
2	Examination admission card and photo ID card	Use GSIS forms. (Attach to the photo ID card one photograph of yourself (head and shoulders, hatless) taken no more than three months prior to application.)
3	Certificate of (expected) completion or certificate of (expected) degree conferral, etc.	Certificate of (expected) completion issued by your university chancellor or faculty dean, certificate of (expected) master's degree issued by the National Institution for Academic Degrees and Quality Enhancement of Higher Education, or certificate of (expected) completion issued by the head of the school you last attended.

		Applicants with the qualification criteria specified in (6) need to provide a (expected) certificate showing that they are expected to have academic performance equal to or greater than those with a master's degree, instead of the certificate requested above.
4	Academic transcript (Graduate school, etc.)	Issued by your university chancellor, graduate school dean or the head of the school you last attended, etc.
	Academic transcript (University (department), etc.)	Issued by your university chancellor or faculty dean. To be submitted only by those applying under (1), (2), (3), (4), (5) or (6).
5	TOEFL®Test or TOEIC®Test scoresheet (see Note 8)	Required for applicants for selection for overseas students. etc. of Mathematics (Group 1), and applicants for general transfer-admission selection, applicants wishing to advance from other departments in Tohoku University and applicants for transfer-admission selection for overseas students, etc. of Information and Biosystems (Group 2), Machine and Intelligence (Group 3), Civil Engineering (Group 4), Languages and Media (Group 5), Psychology and Philosophy (Group 6) and Social Sciences (Group 7). TOEFL®Test and TOEIC®Test examinations must have been taken no more than two years before the first day of the entrance examination.
6	Letter of acceptance	Written by your prospective supervisor (no set format)
7	Master's thesis (copies also accepted)	If you have no master's thesis, please submit papers or other written work showing your research results (around 2,000 characters, A4 size).
8	Application fee	30,000 yen (Use a postal money order*, leaving the recipient column blank.) Not required if an applicant falls under any of the following: <ul style="list-style-type: none"> • Applicant wishing to advance (applicant who has been enrolled in the Tohoku University two-year program (master degree program) or a professional degree program and is expected to graduate in September 2020 • Japanese government (MEXT) scholarships • The admission fee waiver applicants affected by natural disasters
9	Receipt and duplicate copy thereof	Use GSIS form, entering your name. Not required if an applicant falls under any of the following: <ul style="list-style-type: none"> • Applicant wishing to advance (applicant who has been enrolled in the Tohoku University two-year program (master degree program) or a professional degree program and is expected to graduate in September 2020. • Applicant supposed to be a government (MEXT)-sponsored exchange overseas student when accepted by GSIS. • The admission fee waiver applicants affected by natural disasters
10	Return envelope for examination admission card	Use the envelope designated by GSIS. (Clearly write name, address, and postcode and attach a 384 yen stamp.)
11	Return envelope for official correspondence	Use the envelope designated by GSIS. (Clearly write name, address, and postcode and attach a 780 yen stamp.) If you wish to receive the return envelope at a location within Tohoku University, do not attach a stamp but instead write "Within University" in red ink.

* Please request this at a postal savings bank or post office savings counter, adding in both the application fee and the handling fee.

Note 8: We accept a score of any of the following publicly offered standardized tests: TOEFL-iBT®Test, TOEFL-PBT®Test or TOEIC®Test. We do not, however, acknowledge scores of institutionally offered TOEFL-ITP®Test or TOEIC-IP®Tests. Scores of multiple tests may be submitted provided they are of different types.

Where a scoresheet is not submitted at the time of your application (by the final day of the period for application acceptance), your English language score will be rated at zero. We only accept TOEFL iBT® scores from a single test date, not MyBest™ scores.

The following applicants must submit a certificate. For further details, please see pp. 8-11.

- Mathematics (group 1): Applicants for transfer-admission selection for overseas students, etc.
- Information and Biosystems (group 2), Machine and Intelligence (group 3), Civil Engineering (group 4), Languages and Media (Group 5), Psychology and Philosophy (Group 6), Social Science (group 7) : Applicants for general transfer-admission selection, applicants wishing to advance from other departments in Tohoku University and applicants for transfer-admission selection for overseas students, etc.

Regarding groups 1, 2, 3, 5 and 6, those whose native language is English need to inquire on an individual basis.

TOEFL, TOEFL iBT, TOEFL ITP and TOEIC are registered trademarks of Educational Testing Service (ETS).

In addition to the above documentation, applicants for transfer-admission selection for mature students and applicants for transfer-admission selection for overseas students, etc. should submit the following.

[Applicants for transfer-admission selection for mature students]

No.	Documentation	Details
1	Written consent to take exam	If you are currently employed, written consent to take the entrance examination (no set format, but a company seal, etc. are required) issued by the head of your division.
2	Employment certificate	An employment certificate about the employment period, content of work, and position (no set format, but a company seal, etc. are required) issued by the head of your division.
3	Statement of purpose	Areas of interest, future goals, etc. (A4 size)
4	Research plan	A4 size (around 2,000 characters)
5	Explanation of past research	Master's thesis, your workplace research achievements, etc. (A4 size)
6	List of research achievements	List of papers and patents. (For joint work, note the percentage of your contribution. ; A4 size)

[Applicants for transfer-admission selection for overseas students, etc.]

No.	Documentation	Details
1	Letter of recommendation	Written by your previous graduate school supervisor or a person of the same position as the supervisor (no set format). Unnecessary for those who completed graduate school in Japan or for those who are expected to complete by September 2020.
2	Other	Submit papers, reports, etc., if any, that demonstrate scholastic ability.
3	Government scholarship certificate	Only overseas students on Japanese government (MEXT) scholarships at other universities (submit a Japanese government (MEXT) scholarship certificate issued by their university)
4	Written consent to take exam, employment certificate, etc.	If you are currently employed, written consent to take the examination (no set format, but a company seal, etc. are required) issued by the head of your division.

5. Selection method

1) Advancing students from GSIS

Selection will be based upon results from the two-year master's program and an individual assessment, etc.

2) General transfer-admission applicants, advancing students from other graduate schools of Tohoku University and applicants for transfer-admission selection for overseas students, etc.

Selection will in principle be based on a combination of written examinations, an oral examination, academic transcript and other submitted documents.

Applicants should refer to "the list of laboratories (areas)" on pp.12-15 or GSIS website (<https://www.is.tohoku.ac.jp/en/laboratory/>) to select the laboratory (area) to which they wish to be assigned and sit the written and oral examinations for the specialized subject group specified by that laboratory (in that area).

Subject group codes, laboratory codes and departments are shown in Table 1.

The content of examinations for each specialized subject group is shown on pp.8-11.

Where the applicant is advancing from another graduate school at Tohoku University and their prospective supervisor will be one of the persons examining their thesis, their master's program results may be sufficient to exempt them from the written examinations.

Table 1

Specialized subject group		Laboratory codes	Department
Group code	Name		
1	Mathematics	A01-1, A01-2, A02-1, A02-2, A03, A04	Computer and Mathematical Sciences
		B01-1, B01-2, B02-1, B02-2, B03	System Information Sciences
2	Information and Biosystems	A05, A07, A08, A09, A10, A11, A13, A14, A16, A17, A18	Computer and Mathematical Sciences
		B04, B05, B06, B07, B08, B11, B12, B13, B15	System Information Sciences
		D01, D02, D04, D05, D07-1, D07-2, D08, D10, D11, D12	Applied Information Sciences
3	Machine and Intelligence	A06-1, A06-2, A12-1, A12-2, A15-1, A15-2, A19-1, A19-2	Computer and Mathematical Sciences
		B09, B10-1, B10-2, B14	System Information Sciences
		D03-1, D03-2, D03-3, D09-1, D09-2	Applied Information Sciences
4	Civil Engineering	C11-1, C11-2, C12-1, C12-2, C13-1, C13-2	Human-Social Information Sciences
5	Languages and Media	C01, C06, C14, C15	Human-Social Information Sciences
6	Psychology and Philosophy	C02, C03, C04, C05, C16	Human-Social Information Sciences
		D06	Applied Information Sciences
7	Social Sciences	C07, C08, C09, C10	Human-Social Information Sciences

* Aside from the above, the following examination method can also be chosen.

Special method: In place of the above written and oral examinations, the applicant can produce a paper or a short essay concerning their background, undergo an oral examination, and sit a foreign language examination (English). (According to the outcome of the prior documentation screening, examination by such methods may not be permitted.)

Those wishing to be examined using the above method must consult with GSIS Educational Affairs Section and their prospective supervisor to confirm the specific examination method by 18 June, 2020.

(a) Schedule for screening examinations.

Examinations will be held by specialized subject group over 25-27 August 2020 according to the schedule on pp.8-11.

(b) Place and time of the examination

The details including the examination venue will be notified along with the examination admission card to be sent. As for the time and the date of the examinations, refer to "Examination schedule and examination content for each specialized subject group." (p.8)

3) Transfer-admission selection for mature students

Those applying for admission as mature students should in principle have been employed for two or more years as technicians, researchers, or teachers in public offices, schools or companies, etc. In case that applicants have less than 2 years of work experience, only those who have a status as a researcher, teacher or technician after being transferred are subject to this selection. The aim is for mature students to exploit their workplace experience in their learning and research, refresh and advance their knowledge and skills, or to acquire knowledge and skills in new areas, advancing their creative abilities.

Screening will entail in principle a holistic assessment of the applicant's basic academic ability and work experience and research content as a working member of society based on a short essay, oral examination and documentation screening. Emphasis will also be placed on the relationship between the research area in which the candidate wishes to major and their work and research experience to date.

6. Announcement of successful applicants

The examination code numbers of successful applicants will be listed on GSIS website around 5 p.m. on 4 September 2020 (<https://www.is.tohoku.ac.jp/>). Applicants will also be notified of results placed in the envelope exclusively used for official communication by mail.

7. Application for Long-Term Study System

GSIS can, based on the results of a review, give permission for a student to complete their study program (Note 10) systematically over a period of more than three years, the standard completion period, in response to circumstances such as the student's having a job (Note 9). Students to whom this system is applied are called "long-term students."

GSIS will engage in consultation in relation to this system at any point in time. Details of application methods will be contained in the documentation on advancement and transfer procedures that is sent out following the announcement of successful applicants.

Note 9: Students eligible for the long-term student system are: (i) full-time employees at companies, etc., or those who are self-employed; (ii) those needing time away for childbirth, childcare or nursing care, etc.; and (iii) other persons deemed eligible by GSIS.

Note 10: The term of study cannot extend past six years. However, students can request that the permitted term of study be shortened. In principle, there will be no special curriculum set for long-term students.

8. Advancement and transfer-admission procedures

Information on advancement and transfer procedures and other details will be sent out together with the notification of acceptance.

9. Costs

(1) Advancing students

Tuition fee (Per Semester)	267,900 yen (subject to change)
(Annual fee: 535,800 yen)	(subject to change)

(2) Transfer-admission students

Entrance fee	282,000 yen (subject to change)
Tuition fee (Per Semester)	267,900 yen (subject to change)
(Annual fee: 535,800 yen)	(subject to change)

(For both (1) and (2))

Note 11: Tuition fees while enrolled at Tohoku University should be paid to the university through an automatic debit from a bank account held at a designated bank. The above fees are provisional, and where tuition fees are revised during your period of study, the new tuition fee will apply as of the time of revision.

Note 12: Information on exemptions from entrance and/or tuition fees or permission for delayed fee payment will be provided in the documentation on transfer advancement and transfer-admission procedures, etc., sent out after the announcement of examination results.

10. Notes

- (1) Application documents and the examination fee will not be returned.
- (2) Anyone who files a false declaration in the application documents, the admission may be canceled even after admission.
- (3) When submitting an application by mail, use the official application envelope and send it by express registered mail.
- (4) If you have not received an examination admission card by 10 days before the entrance examination date, please contact GSIS Educational Affairs Section.
- (5) Consultation is available for those applicants with special examination or study needs. Please contact GSIS Educational Affairs Section in this regard by 18 June 2020.
- (6) When requesting application documentation by mail, please enclose a self-addressed envelope (No. 2 size, or approximately 34 cm x 24cm) on which your name, address and postal code are clearly written and with a 250 yen stamp attached. If you require a brochure explaining details of the school's program, clearly write your request in red ink on a request envelope and enclose a self-addressed envelope (same size as above) with a 390 yen stamp attached.
- (7) We will disclose the entrance exam results to those who took the entrance exam of Tohoku University Graduate School of Information Science. If you wish, please inquire to the academic staff about procedures, etc. Applications will be accepted only if there is a request for disclosure (prescribed application form) from the applicant himself / herself.

(8) Handling of personal information

- (i) Personal information gathered in the course of admission screening will be used solely for the purposes of conducting admission screening, admission procedures, providing support after admission (scholarships, tuition fee exemptions, health management, etc.), education (educational guidance, etc.), and administrative activities such as collecting tuition fees.
- (ii) Personal information gathered in the course of admission screening will be handled strictly in compliance with “the Act on the Protection of Personal Information Held by Independent Administrative Agencies, etc.” and other laws and regulations, as well as “Tohoku University Regulations on the Protection of Personal Information,” and will not be disclosed or released to third parties without the consent of the person concerned.
- (iii) It is deemed that those applying to Tohoku University Graduate School of Information Sciences have consented to the above provisions.

June 2020

Educational Affairs Section,
Graduate School of Information Sciences, Tohoku University
6-3-09 Aramaki-Aza Aoba, Aoba-ku, Sendai, 980-8579, JAPAN
Tel: 022-795-5814
<https://www.is.tohoku.ac.jp/>

Examination schedule and examination content for each subject group

October 2020

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	Group 1 Mathematics
Written examinations *	<p>Specialized subjects 26 August 10:00-13:00</p> <p>Select three out of 10 questions on differential and integral calculus (2), linear algebra (1), applied mathematics (1), discrete mathematics (1), probability/statistics (1), complex analysis (1), differential equation (1), geometry (1), and algebra (1).</p> <p>The applicant must also write a short essay on a theme provided on the day of the examination.</p>
	<p>English</p> <p>Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS's DI code is 2149.) Applicants whose native language is English should contact GSIS on an individual basis.</p>
Oral examination	<p>26 or 27 August: Applicants will be notified of the exact date and start time separately.</p> <p>Applicants must speak for approximately 20 minutes on the education they received at their former graduate school and their master's thesis (including theses under production). (PC projectors can be used.) On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).</p>

	Group 2 Information and Biosystems
Written examinations *	<p>Basic subjects 25 August 9:30-11:30 (Meeting time 9:00)</p> <p>Physics and informatics: Select two out of six questions on electromagnetics, electrical circuits, fundamentals of informatics 1, fundamentals of informatics 2, fundamentals of physics and fundamentals of mathematics.</p> <p>Medicine and biology: Select two out of five questions on fundamentals of molecular biology, fundamentals of general physiology, fundamentals of neuroendocrinology, fundamentals of pathophysiology and fundamentals of health science.</p>
	<p>English</p> <p>Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS's DI code is 2149.) Applicants whose native language is English should contact GSIS on an individual basis.</p>
	<p>Note: Please enter the subjects in which you wish to be examined (physics and informatics or medicine and biology) along with the subject group (Information and Biosystems) in the application form. Please refer to the relevant departments in regard to the scope of the various subjects, or check on the website at this address: http://www.ecei.tohoku.ac.jp/ecei_web/admission/exam_subject.html</p>
Oral examination	<p>26 or 27 August</p> <p>Applicants will be notified of the exact date and start time separately.</p> <p>Applicants must speak for approximately 20 minutes on the education they received at their former graduate school or their master's thesis (including theses under production). On the day of the examination, bring five copies of materials related to your presentation (A4 size).</p>

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	Group 3 Machine and Intelligence
Written examinations *	English Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS’s DI code is 2149.) Applicants whose native language is English should contact GSIS on an individual basis. With the exception of applicants whose native language is English, if an applicant cannot provide an original score report from the TOEIC public test, the application request will not be accepted. (However, if the applicant is submitting a scoresheet of the TOEIC public test, it can be accepted after the application period. In such a case, unless the original scoresheet is submitted by the deadline, the applicant will be classified as having “failed.”)
	Mathematics A 25 August 9:30-11:00 (Meeting time 9:00) Differential and integral calculus, linear algebra, vector analysis
	Mathematics B 25 August 13:30-15:00 Ordinary differential equations, Partial differential equations, Fourier series and transform, Laplace transform
	Specialized subjects 26 August 9:00-12:00 (Meeting time 8:30) Select two from the following five subjects: thermodynamics, fluid mechanics, material dynamics, mechanical dynamics and control engineering
Oral examination	27 August Applicants will be notified of the meeting time separately. According to the result of the written examination, you may be exempted from the oral examination. Applicants must speak for approximately 20 minutes on the education they received at their former graduate school or their master’s thesis (including theses under production). (PC projectors can be used.) On the day of the examination, bring 13 copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).

	Group 4 Civil Engineering
Oral examination	25 or 26 August: Applicants will be notified of the exact date and start time separately. Applicants must speak for approximately 15 minutes on the education they received at their former graduate school and their master’s thesis (including theses under production). (PC projectors can be used. If you wish to use a PC projector, please contact the Educational Affairs Section beforehand.) Applicants will be asked questions on their presentation, motivation and drive, and research goals after admission. On the day of the examination, bring eight copies of materials related to your presentation (presentation outline, blueprints, etc.; A4 size).
Written examinations *	English Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS’s DI code is 2149.)
	Specialized subjects 25 August 13:00-15:00 Written examination will be taken on subjects in relation to applicants’ specialized fields.
	Notes (1)Regarding specialized subjects, select 3 questions from 4 questions. (2)Please consult your academic advisor about the examination content of specialized subjects.

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	<p>Group 5 Languages and Media</p>
<p>Written examinations *</p>	<p>English Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS’s DI code is 2149.) Applicants whose native language is English should contact GSIS on an individual basis.</p>
	<p>Specialized subjects 26 August 10:00-13:00 Answer two questions from these areas: general linguistics, syntax, semantics, morphology, semiotics, literary theory, literary hermeneutics, media, information literacy, cultural research, German, and French. Applicants for either languages or media should ensure that they answer questions from the areas designated in the book for questions respectively. Note: Applicants choosing German or French can use a dictionary. Dictionaries will be supplied by the examiner.</p>
<p>Oral examination</p>	<p>26 or 27 August Applicants will be notified of the exact date and start time separately. Applicants must speak for approximately 20 minutes on the education they received at their former graduate school and their master’s thesis (including theses under production). (PC projectors can be used.) On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size). Overseas students from Tohoku University do not need to give a presentation, but they will be asked about their master’s thesis (including those under production) and their research goals following transfer, etc.</p>

	<p>Group 6 Psychology and Philosophy</p>
<p>Written examinations *</p>	<p>English Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS’s DI code is 2149.) Applicants whose native language is English should contact GSIS on an individual basis.</p>
	<p>Specialized subjects 26 August 10:00-13:00 Select two out of 12 questions from these areas: psychology (sensation and perception, cognition, learning and memory, personality, psychometrics) and philosophy (history of philosophy). Applicants for either psychology(cognitive psychology, human learning and memory, cognitive psychology of communication) or philosophy(philosophy of human information, philosophy of logical analysis) should ensure that they answer questions from the area designated in the book for questions respectively. If you wish to be assigned to either of the following labs (cognitive informatics, human learning and memory, cognitive psychology or communication psychology), you will be required to produce a short essay (topic to be indicated at the examination venue).</p>
<p>Oral examination</p>	<p>27 August 10:00- Applicants must speak for approximately 20 minutes on the education they received at their former graduate school and their master’s thesis (including theses under production). (PC projectors can be used.) On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size). Overseas students from Tohoku University do not need to give a presentation, but they will be asked about their master’s thesis (including those under production) and their research goals following transfer, etc.</p>

Three-Year Doctoral Program: Transfer-admission selection for overseas students, etc.

	Group 7 Social Sciences
Written examinations *	<p>English</p> <p>Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS’s DI code is 2149.)</p>
	<p>Specialized subjects 26 August 10:00-13:00</p> <p>Select one of the following categories.</p> <p>Sociology : select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, civil society and social research methods</p> <p>Politics : select three out of five questions from the following areas: political consciousness, modern political thought, public administration, political processes, political systems and comparative politics</p> <p>Economics : select three out of five questions from the following areas: microeconomics, macroeconomics, urban economics, regional economics, statistics, econometrics and mathematics for economics</p> <p>Questions may be answered in English. Where necessary, the examiner will supply calculators.</p> <p>* State the name of the categories (sociology, politics, or economics) in the application, along with the name of the specific subject (Social Sciences). No change in category will be allowed after the application has been submitted</p>
Oral examination	<p>26 or 27 August Applicants will be notified of the exact date and start time separately.</p> <p>Applicants must speak for approximately 20 minutes on the education they received at their former graduate school and their graduation thesis (including theses under production). (PC projectors can be used.) The examiners will ask questions for approximately 10 minutes. On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size). Presentations can be given in English.</p>

* In each of the subject groups, applicants may be exempted from the written examinations according to the content of their academic transcripts.

A TOEFL®Test or TOEIC®Test scoresheet must still be provided at the time of application.

List of laboratories (areas) within Tohoku University Graduate School of Information Sciences 2021

* For details on the research, etc., at these laboratories (areas), please see GSIS's website at:

<https://www.is.tohoku.ac.jp/en/laboratory/>

Group code	Group	Division	Laboratory (Area)	Lab. code	Staff	Department
1	Mathematics	Mathematical Structures	Mathematical Structures I	A01-1	Prof. Akihiro MUNEMASA	Computer and Mathematical Sciences
				A01-2	Assoc. Prof. Hiroki SHIMAKURA	
			Mathematical Structures II	A02-1	Prof. Toshiyuki SUGAWA	
				A02-2	Assoc. Prof. Hajime TANAKA	
			Mathematical Structures III	A03	Prof. Hitoshi MURAKAMI	
			Mathematical Structures IV	A04	Prof. Hiromi SENO	
		Mathematical System Analysis	Mathematical System Analysis I	B01-1	Prof. Masaaki HARADA	System Information Sciences
				B01-2	Assoc. Prof. Kei FUNANO	
			Mathematical System Analysis II	B02-1	Prof. Nobuaki OBATA**	
				B02-2	Assoc. Prof. Reika FUKUIZUMI	
Mathematical System Analysis III	B03	Prof. Shigeru SAKAGUCHI*				
2	Information and Biosystems	Applied Mathematical Science	Statistical Physics	A05	(Currently vacant)	Computer and Mathematical Sciences
		Computation Science and Systems	Computation Science and Systems Computation Theory	A07	(Currently vacant)	
				Computer Structures	A08	
			Intelligent Integrated Systems	A09	Prof. Masanori HARIYAMA Assoc. Prof. Hasitha Muthumala WAIDYASOORIYA	
		Software Science and Systems	Firmware Science	A10	(Currently vacant)	
			Foundations of Software Science	A11	Prof. Eijiro SUMII Assoc. Prof. Kazutaka MATSUDA	
		Logic for Information Science	Logic for Information Science	A13	Prof. Keisuke NAKANO	
		Communication Theory	Communication Theory	A14	Prof. Go HASEGAWA Assoc. Prof. Gen KITAGATA	
		Information Security	Information Security	A16	Prof. Hiroki SHIZUYA Assoc. Prof. Masao SAKAI Assoc. Prof. Shuji ISOBE	

Information and Biosystems	Environmental Informatics	Environmental Informatics	A17	(Currently vacant)	System Information Sciences	
	Fundamental Data Informatics	Fundamental Data Informatics	A18	Prof. Yoshinori HAYAKAWA Assoc. Prof. Takashi MITSUISHI		
	Intelligent Information Science	Algorithm Theory	B04	Prof. Xiao. ZHOU Assoc. Prof. Akira SUZUKI		
		Intelligent Systems Science	B05	Prof. Ayumi SHINOHARA Assoc. Prof. Ryo YOSHINAKA		
		Natural Language Processing	B06	Prof. Kentaro INUI Assoc. Prof. Jun SUZUKI		
	Biosystem Information Sciences	Information Biology	B07	(Currently vacant)		
		Design and Analysis of Information Systems	B08	Prof. Takehiro ITO Assoc. Prof. Jinhee CHUN		
	Acoustic Information	Acoustic Information	B11	Prof. Shuichi SAKAMOTO		
	Visual Cognition and Systems	Visual Cognition and Systems	B12	Prof. Satoshi SHIOIRI Assoc. Prof. Ichiro KURIKI Assoc. Prof. Chia-Huei Tseng		
	Information Contents	Information Contents	B13	Prof. Yoshifumi KITAMURA Assoc. Prof. Kazuki TAKASHIMA		
	Software Construction	Software Construction	B15	Prof. Atsushi OHORI* Assoc. Prof. Katsuhiro UENO		
	Information and Applied Technology	Physical Fluctuomatics	D01	Prof. Kazuyuki TANAKA Assoc. Prof. Masayuki OHZEKI		Applied Information Sciences
		Information Technology	D02	Prof. Nei KATO Assoc. Prof. Yuichi KAWAMOTO		
	Applied Informatics for Human and Life Sciences	Systems Bioinformatics	D04	Prof. Kengo KINOSHITA Assoc. Prof. Takeshi OOBAYASHI Assoc. Prof. Hafumi NISHI Assoc. Prof. Kazunori YAMADA		
		Biomodeling	D05	Prof. Mitsuyuki NAKAO* Assoc. Prof. Norihiro KATAYAMA		
Applied Intelligence Software	Applied Intelligence Software	D07-1	Prof. Takuo SUGANUMA Assoc. Prof. Toru ABE			
		D07-2	Assoc. Prof. Hideaki GOTO			

		Information Network Systems	Information Network Systems	D08	Assoc. Prof. Takaaki MIZUKI	Applied Information Sciences	
		Brain Function Integration	Brain Function Integration	D10	Prof. Yoshihiko HORIO		
		Health Informatics	Health Informatics	D11	Prof. Yoshitaka KINOCHI Prof. Chihiro ITO Assoc. Prof. Susumu OGAWA Assoc. Prof. Kimio SATO		
		Statistical Science for Complex systems	Statistical Science for Complex systems	D12	Prof. Atsushi YOSHIMOTO Assoc. Prof. Fumikazu MIWAKEICHI Assoc. Prof. Shinsuke KOYAMA		
3	Machine and Intelligence	Applied Mathematical Science	Mathematical Modeling and Computation	A06-1	Prof. Satoru YAMAMOTO	Computer and Mathematical Sciences	
				A06-2	Assoc. Prof. Takashi FURUSAWA		
		Software Science and Systems	Computer Architecture	A12-1	Prof. Hiroaki KOBAYASHI		
				A12-2	Assoc. Prof. Masayuki SATO		
		High Performance Computing	High Performance Computing	A15-1	Prof. Hiroyuki TAKIZAWA		
				A15-2	(Currently vacant)		
		Advanced Computing Systems	Advanced Computing Systems	A19-1	Prof. Kentaro SANO		
				A19-2	(Currently vacant)		
		Intelligent Robotics	Image Analysis	B09	Prof. Takayuki OKATANI		System Information Sciences
			Intelligent Control Systems	B10-1	Prof. Koichi HASHIMOTO		
				B10-2	Assoc. Prof. Shingo KAGAMI		
		Integrated Fluid Informatics	Integrated Fluid Informatics	B14	Assoc. Prof. Jun ISHIMOTO		
		Information and Applied Technology	Human-Robot Informatics	D03-1	Prof. Satoshi TADOKORO		Applied Information Sciences
				D03-2	Assoc. Prof. Masashi KONYO		
D03-3	Assoc. Prof. Kenjiro TADAKUMA						
Flow System Informatics	Flow System Informatics		D09-1	Prof. Yuji HATTORI			
		D09-2	Assoc. Prof. Makoto HIROTA				
4	Civil Engineering	Infrastructure Planning	Transportation and Geographic Information Science	C11-1	Prof. Takamasa IRYO	Human-Social Information Sciences	
				C11-2	Assoc. Prof. Ryo INOUE		
		Regional and Urban Planning	Regional and Urban Planning	C12-1	Prof. Tatsuhiro KONO		
				C12-2	Assoc. Prof. Junya FUKUMOTO		
		Road Transportation and Traffic	Road Transportation and Traffic	C13-1	Prof. Takashi AKAMATSU		
				C13-2	(Currently vacant)		

5	Languages and Media	Human Information Science	Language and Information Science	C01	Assoc. Prof. Akira KIKUCHI*	Human-Social Information Sciences
			Verbal Text Analysis	C06	Prof. Yoshiaki OGAWA	
		Media and Information Science	Media and Culture	C14	Prof. Tatsuya HORITA Senior Assis. Prof. Kuniko SAKATA	
			Media and Semiotics	C15	Assoc. Prof. Naoko MORITA	
6	Psychology and Philosophy	Human Information Science	Human Learning and Memory	C02	(Currently vacant)	Human-Social Information Sciences
			Cognitive Psychology	C03	Prof. Kazumichi MATSUMIYA Assoc. Prof. Yuichi WADA	
			Philosophy of Human Information	C04	Prof. Ichiro MORI	
			Philosophy of Logical Analysis	C05	(Currently vacant)	
		Cognitive Psychology of Communication	Cognitive Psychology of Communication	C16	Prof. Toshiaki MURAMOTO	
		Applied Informatics for Human and Life Sciences	Cognitive Psychology	D06	Prof. Kazumichi MATSUMIYA	Applied Information Sciences
7	Social Sciences	Socio-Political Information Science	Theory of Social Structure and Change	C07	Prof. Naohito TOKUGAWA Assoc. Prof. Aya OKADA	Human-Social Information Sciences
			Political Informatics	C08	Assoc. Prof. Kazunori KAWAMURA Assoc. Prof. Masaaki HIGASHIJIMA	
		Socio-Economic Information Science	Socio-Economic Analysis of Urban System	C09	Prof. Dao-Zhi ZENG Assoc. Prof. Ryo ITOH	
			Econometric System Analysis	C10	Assoc. Prof. Naoya FUJIWARA	

* Teaching staff due to retire in March, 2022.

** Teaching staff due to retire in March, 2023.