

Tohoku University
Graduate School of Information Sciences
2021 Two-Year Master's Program Admission Guidelines
(April 2021 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 to be admitted	Additional Information
Computer and Mathematical Sciences	38	The figures shown in the left column includes the following quota : Regarding mature students: 4 for each department (Note1) Regarding overseas students etc.: 10 for all departments (Note 2). Those figures also include 10 slots assigned for special selective admission upon recommendation.
System Information Sciences	37	
Human-Social Information Sciences	30	
Applied Information Sciences	35	
Total	140	

Note 1: The status of mature students is granted to those who have worked full time for more than 2 years in principle (see Note 3 below) as well as to those who meet one of the qualifications described in “2. Application requirements.” (See p.5)

Note 2: Those eligible for taking the entrance exam as overseas students are current overseas students or 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 to as “overseas students, etc.”).

Note 3: “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 4: All overseas applicants and mature students must engage in prior consultation with their prospective supervisors to discuss their post-admission research plans.

2. Application requirements

In order to apply as applicants, prospective students must satisfy one of the following prerequisites:

- (1) University graduates (including those who are expected to graduate by March 2021).
- (2) Those persons who have been awarded a bachelor’s degree under the provisions of National Institution for Academic Degrees and Quality Enhancement of Higher Education (including those who are expected to be awarded this degree by March 2021).
- (3) Those persons who have completed 16 years of education in a foreign country (including those who are expected to have completed this by March 2021).
- (4) Those persons who have completed a curriculum equivalent to 16 years of school education in a foreign country by finishing in Japan a correspondence course operated by a school in that country (including those who are expected to complete this by March 2021).
- (5) Those persons who have completed a university program in an educational institution in Japan, which is (i) recognized under the education system of a foreign country as operating a university program (graduates must be recognized as equivalent to those completing 16 years of education in that country) and (ii) otherwise designated by the Minister of Education, Culture, Sports, Science, and Technology (MEXT Minister) of Japan (including those who are expected to complete such a course by March 2021).
- (6) Students who have been conferred a degree equivalent to a bachelor's degree upon completion of a curriculum that has a course term of three years or longer at a university or other school (limited to schools whose overall educational and research activities have been evaluated by the relevant country's government or a government-approved individual, or are designated separately as having met this requirement by the Minister of Education) in a foreign country (including cases in which the student completed the curriculum by taking subjects conducted by said school via distance learning while the student resided in Japan, and cases in which the student has completed a curriculum at an educational facility that is positioned within that country's educational system as per the previous item). (including those who are expected to be awarded this degree by March 2021)
- (7) Those persons who have completed a specialist program at a vocational school (restricted to those programs meeting standards prescribed by the MEXT Minister, including the condition of a study period of at least four years) that has been otherwise designated by the said Minister, where the prospective student has completed the course since the date stipulated by the Minister (including those who are expected to complete such a course by March 2021).
- (8) Those persons designated by the MEXT Minister (please refer to Public Notice of the Ministry of Education No.5 of 1953).

- (9) Those persons who have been admitted to the graduate school of another university according to Article 102 (2) of the School Education Law, and in the opinion of GSIS, have attained a sufficient standard of achievement.
- (10) Other persons who will be at least 22 years old by March 2021 and who are expected based on an individual GSIS screening, to have a level of scholastic attainment equivalent to or above that of a university graduate.

Note 5: The application qualifications stipulated under Article 102 (2) of the School Education Law and Article 11 (9) of Tohoku University Graduate School Regulations are not applicable to “those who have studied at university for at least three years, those who have completed 15 years of school education in a foreign country, those who have completed 15 years of education in a foreign country by finishing in Japan a correspondence course operated by a school in that country, and those who have completed a university course in Japan at an educational facility, which is (i) recognized under the education system of a foreign country as operating a university program (graduates must be recognized as equivalent to completing 15 years of education in that country) and (ii) otherwise designated by the MEXT Minister, and who have been recognized by GSIS as having attained the necessary credits with outstanding results.”

Note 6: Prospective students with qualifications (6), (9) or (10) who wish to apply as mature or overseas students will be subject to our prior documentation screening. Therefore, they should consult first with GSIS Educational Affairs Section and their prospective supervisor, and submit the documentation stipulated by GSIS by 18 June 2020.

3. Application deadlines

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.

No.	Documentation	Details
1	Application form and CV	Use GSIS forms.
2	Supervisor request	Use GSIS form.
3	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.)
4	Certificate of graduation, certificate of (expected) degree conferral, certificate of (scheduled) application for degree or certificate of (expected) Completion	Certificate of (expected) graduation issued by your university chancellor or faculty dean, certificate of (expected) bachelor's degree issued by the National Institution for Academic Degrees and Quality Enhancement of Higher Education, certificate of (scheduled) application for degree issued by your two-year college or technical school chair, etc. or certificate of (expected) completion issued by the head of the school you last attended
5	Academic transcript	Issued by the chancellor of your former university, your faculty dean, or the head of the school you last attended, etc.
6	TOEFL® Test or TOEIC® Test Scoresheet (Note 7)	Required for applicants for selection for overseas students, etc. of Mathematics (Group 1), and for applicants for general selection and 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.

7	Examination fee	30,000 yen (Use a postal money order*, leaving the recipient column blank) Not required if the following conditions are applicable: - Japanese government (MEXT) scholarships - The admission fee waiver applicants affected by natural disasters
8	Receipt and duplicate copy thereof	Use GSIS form, entering your name. Not required if the following conditions are applicable: - Japanese government (MEXT) scholarships - The admission fee waiver applicants affected by natural disasters
9	Return envelope for examination card	Use the envelope designated by GSIS. (Clearly write name, address and postcode and attach a 384 yen stamp.)
10	Envelope for official correspondence	Use the envelope designated by GSIS. (Clearly write name, address and postcode and attach a 384 yen stamp.)
11	Other	1) Submit papers, reports, etc., if any, that demonstrate scholastic ability. 2) Mature students (see Note 3 below) and overseas students (see Note 2 below) who prefer to take the general entrance examination instead should submit “a certificate (of no specified form) (a document in which research programs, etc. are confirmed),” composed by the faculty member projected to be in charge of the students.

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

Note 7: 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 scoresheet. For further details, please see pp. 7-10.

- Mathematics (group 1): Applicants for 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 selection and the applicants for 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).

Regarding the applicants for mature student selection and the applicants for selection for overseas students, etc., in addition to the above documentation, please submit the following as appropriate.

[The applicants for mature student selection]

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) from the head of your division.
2	Employment certificate, etc.	An employment certificate about the employment period, content of work, and position (no set format, but company seal, etc. are required) issued by the head of your division.
3	Letter of acceptance	Written by your prospective supervisor (no set format)
4	Statement of purpose	Areas of interest, research plan, future goals, etc. (A4 size)
5	Graduation thesis, etc.	Graduation thesis, content of your university or other research, job description, etc. (A4 size)

[The applicants for selection for overseas students, etc.]

No.	Documentation	Details
1	Letter of acceptance	Written by your prospective supervisor (no set format)
2	Letter of recommendation	Written by your previous university supervisor or a person of the same position as the supervisor (no set format). Unnecessary for those who graduated from a university in Japan or for those who are expected to graduate by March 2021.
3	Government scholarship certificate	Only overseas students on government (MEXT) scholarships at other universities should submit a Japanese government (MEXT) scholarship certificate issued by their university.
4	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 needed) issued by the head of your division is required.

5. Selection method

Selection will in principle be based upon a combination of written examinations (in the case of mature students, short essay, etc.), an oral examination, their academic transcript and other submitted documents.

1) General selection and selection for overseas students, etc.

Applicants should refer to “the list of laboratories (areas)” on pp.11-14 or GSIS’s website (<https://www.is.tohoku.ac.jp/en/laboratory/>) to select their first choice in terms of laboratory (area) 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.7-10.

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 methods can also be chosen.

Method 1: Taking the written examinations for another specialized subject group.

Method 2: Take the written examinations for a subject that is not in GSIS’s specialized subject groups (not possible for all subjects).

Method 3: In place of the above written and oral examinations, the applicant can produce a paper 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 methods must consult with GSIS Educational Affairs Section and their prospective supervisor to confirm the specific examination method by 18 June, 2020.

(1) Schedule for entrance examinations

Examinations will be held by specialized subject group over 25-27 August 2020 according to the schedule on pp.7-10.

(2) Place and time of 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.7).

2) Mature student selection

Those applying for admission as a mature student should in principle have been employed for two or more years as technicians, teachers or researchers in public office, schools or companies, etc. 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’s 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 9) systematically over a period of more than two years, which is the standard completion period, in response to circumstances such as the student’s having a job (Note 8). 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 admission procedures sent out after the announcement of successful applicants.

Note 8: 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 9: The term of study cannot extend past four 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. Admission procedures

Information on admission procedures will be sent to each applicant at the end of February, 2021.

9. Costs

- | | |
|---|---------------------------------|
| (1) Entrance fee | 282,000 yen (subject to change) |
| (2) Tuition fee (Per Semester) | 267,900 yen (subject to change) |
| (Annual fee: 535,800 yen) (subject to change) | |

Note 10: 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 11: Information on exemptions from entrance and/or tuition fees or permission for delayed fee payment will be provided in the documentation on admission procedures sent out after the announcement of the 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, 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 documents by mail, please enclose a self-addressed envelope (No. 2 size, or approximately 34 cm x 24 cm) on which your name, address and postal code are clearly written and 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

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

- (i) In addition to the August admission, as for mature student selection and selection for overseas students, etc., we plan to accept applications for another term course. The deadline for such applications is in the beginning of January, and the written exam is scheduled to be held in the beginning of February (groups 1, 5, 6 and 7) and the beginning of March (groups 2, 3 and 4).
- (ii) In addition to the August admission, as for specialized subject groups, we plan to accept applications for another term course. The deadline for such applications is in the beginning of January, and the written exam is scheduled to be held in the beginning of February (groups 1, 5, 6 and 7) and the beginning of March (groups 2, 3 and 4).
Further information regarding those examinations will be announced in the beginning of November.

Examination schedule and examination content for each specialized subject group

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Group 1 Mathematics	
Written examinations *	<p>Specialized subjects 26 August 10:00-13:00</p> <p>Select four out of 11 questions on differential and integral calculus (2), linear algebra (2), applied mathematics (1), discrete mathematics (1), probability/statistics (1), complex analysis (1), differential equation (1), geometry (1), and algebra (1).</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 10 minutes on their (expected) graduation research at their former university or the main areas of mathematics that they have studied. (PC projectors can be used.) On the day of the examination, bring five copies of an outline of your presentation and your research goals following admission (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>Specialized subjects 26 August 9:30-11:30 (Meeting time 9:00)</p> <p>Physics and informatics: Select two out of six questions on electrical engineering, communication engineering, electronic engineering, computers 1, computers 2, specialized physics.</p> <p>Medicine and biology: Select two out of five questions on specialized molecular biology, specialized general physiology, specialized neuroendocrinology, specialized pathophysiology, and specialized health science.</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 each subject, 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: Applicants will be notified of the exact date and start time separately.</p> <p>Applicants must speak for approximately 10 minutes on the education they received at their former university, their (expected) graduation thesis and their research goals following admission, etc. (Overseas students who undertook their undergraduate studies at Tohoku University may in some cases be exempted from giving this presentation.)</p>

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Group 3 Machine and Intelligence	
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.) Applicants whose native language is English should contact GSIS on an individual basis.</p> <p>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.")</p>
	<p>Mathematics A 25 August 9:30-11:00 (Meeting time 9:00) Differential and integral calculus, linear algebra, vector analysis</p>
	<p>Mathematics B 25 August 13:30-15:00 Ordinary differential equations, Partial differential equations, Fourier series and transform, Laplace transform</p>
	<p>Specialized subjects 26 August 9:00-12:00 (Meeting time 8:30) Select two out of the following five subjects: thermodynamics, fluid mechanics, material dynamics, mechanical dynamics and control engineering</p>
Oral examination	<p>27 August Applicants will be notified of the meeting time separately.</p> <p>According to the result of the written examination, you may be exempted from the oral examination. Applicants must speak for approximately 10 minutes on the education they received at their former university or their graduation 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). Overseas students who undertook their undergraduate studies at Tohoku University do not need to give a presentation, but they will be asked about their (expected) graduation research and their research goals after admission, etc.</p>

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Group 4 Civil Engineering	
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 Applicants must choose four questions out of 17 questions on 8 subjects. 1. Mathematics (differential and integral calculus (1 question), linear algebra (1 question), probability and statistics (1 question)) 2. Mechanics of Elastic Media and Structures (2 questions) 3. Geotechnical and Concrete Engineering (2 questions) 4. Hydraulics (2 questions) 5. Water Quality and Environment (2 questions) 6. Biological and Ecological Engineering (2 questions) 7. Transportation Engineering and Planning (2 questions) 8. Operations Research (2 questions)
	Notes (1) No dictionary or calculator allowed. (2) For past entrance examination questions and question scope, please refer to the following website: http://www.civil.tohoku.ac.jp/inshi.html
Oral Examination	25 or 26 August: Applicants will be notified of the exact date and start time separately. Questions cover the education received in the previous institution, the content of the thesis (including the one in progress), their drive and motivation, and research goals following admission, etc. The Japanese language proficiency of the applicants is also judged.

Group 5 Languages and Media	
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.
	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 area designated in the book for questions respectively. Note: Applicants choosing German or French can use a dictionary. Dictionaries will be supplied by the examiner.
Oral examination	26 or 27 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 university and their graduation 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).

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Group 6 Psychology and Philosophy	
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.) Applicants whose native language is English should contact GSIS on an individual basis.</p>
	<p>Specialized subjects 26 August 10:00-13:00</p> <p>Select three out of 12 questions from these areas: psychology (sensation and perception, cognition, learning and memory, personality, psychometrics) and philosophy (history of philosophy).</p> <p>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.</p>
Oral examination	<p>27 August 10:00-</p> <p>Applicants must speak for approximately 20 minutes on the education they received at their former university and their graduation 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 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. * State the name of the categories in which you wish to be examined (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 university 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)	
	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	System Information Sciences
		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. Katsushi UENO	
	Information and Applied Technology	Physical Fluctuomatics	D01	Prof. Kazuyuki TANAKA Assoc. Prof. Masayuki OHZEKI	
		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 KINOUCHI 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	C12-1	Prof. Tatsuhito KONO			
			C12-2	Assoc. Prof. Junya FUKUMOTO			
		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. Yoshiki 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.