# Tohoku University Graduate School of Information Sciences 2016 Three-Year Doctoral Program Admission Guidelines (April 2016 Advancement and Transfer Admissions)

Examination dates: 1-3 March 2016

November 2015

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 admitted	Additional Information
Computer and Mathematical Sciences	11	The figures shown in the left column (advancing (Note 1) / transferring students to be admitted)
System Information Sciences	11	include the following quota; *transfer-admission selection for mature students
Human-Social Information Sciences	10	(Note 2): 4 in each department
Applied Information Sciences	10	*transfer-admission selection for overseas students, etc. (note 3): total of 7 in all the department.
Total	42	

- 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.6~7).
- Note 3: Those eligible to apply for transfer-admission selection for overseas students, etc. 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.").

#### 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 March 2016 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 be awarded such a degree by March 2016).
  - (2) Those persons who have acquired a degree equivalent to a master's degree or a professional degree (including those who are expected to be awarded such a degree by March 2016) 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 March 2016).
  - (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 March 2016).
  - (5) Those who have completed programs in United Nations University and who have been awarded a degree comparable to a Master's (including those who are planning to finish the enrolled program by March 2016.)
  - (6) Those who have completed programs in United Nations University (founded based on the United Nations General Assembly resolution on Dec. 11 1972, which was prescribed in paragraph 2, Article 1 of a special legislation involved with an agreement on headquarters of United Nations University between United Nations and Japan), and who have received a degree comparable to a Master's (including those who are planning to finish the enrolled program by March 2015.)
  - (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, while 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 deemed 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 March 2016.
- Note 4: "Mature students are those that 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 the 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.
- Note 6: As those wishing to apply under (7) or (8) above will be subject to prior documentation screening, they should consult beforehand with GSIS Educational Affairs Section and their prospective supervisor, submitting the documentation stipulated by GSIS by 18 December 2015.

#### 3. Application deadlines

Applications must be received between 4 - 7 January 2016. The reception is open from 9:00AM to 4.30PM. Where posted applications arrive later than 8 January, only those postmarked up to 7 January will be accepted.

The mailing address:

**Educational Affairs Office** 

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.

1) 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) from 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 530 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.

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

No.	Documentation	Details
1	Advancement/transfe r 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 University Evaluation (NIAD-UE), 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.
	Academic transcript (Graduate school, etc.)	Issued by your university chancellor, graduate school dean or the head of the school you last attended.
4	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 or TOEIC scoresheet <sup>8</sup>	Required for applicants for the selection for overseas students, etc. of Information and Biosystems (Group 2), Machine and Intelligence (Group 3), Civil Engineering (Group 4) 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 Social Sciences (Group 7).  TOEFL and TOEIC examinations must have been taken no more than two years before the first day of the entrance examinations.
6	Letter of accept	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 research results instead of master's thesis.
8	Application fee	<ul> <li>30,000 yen (Use a postal money order*, leaving the recipient column blank.)</li> <li>Not required if an applicant falls under any of the following:</li> <li>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 March 2016.</li> <li>Applicant supposed to be a government (MEXT)-sponsored exchange overseas student when accepted by GSIS.</li> <li>Applicant exempt from an entrance examination fee with the support for the Great East Japan Earthquake victims.</li> </ul>
9	Receipt and duplicate copy thereof	<ul> <li>Use GSIS form, entering your name.</li> <li>Not required if an applicant falls under any of the following:</li> <li>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 March 2016.</li> <li>Applicant supposed to be a government (MEXT)-sponsored exchange overseas student when accepted by GSIS.</li> <li>Applicant exempt from an entrance examination fee with the support for the Great East Japan Earthquake victims.</li> </ul>
10	Return envelope for examination card	Use the envelope designated by GSIS. (Clearly write name, address and postcode and attach a 372 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.
11	Return envelope for official correspondence	Use the envelope designated by GSIS. (Clearly write name, address and postcode and attach a 530 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.
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<sup>\*</sup> Please request this at a postal saving banks or post office savings counter, adding in both the application fee and the handling fee.

Note8: We accept a score of any of the following publicly offered standardized tests: TOEFL-PBT, TOEFL-iBT or TOEIC. We do not, however, acknowledge scores of institutionally offered TOEFL-ITP 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, your English language score will be rated at zero. The following applicants must submit a scoresheet. (see p.9-p.15)

• Information and Biosystems (group 2), Machine and Intelligence (group 3), Civil Engineering (group 4), 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 and 3, those whose native language is English need to inquire on an individual basis.

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 respectively 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, etc.	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 university supervisor or a person of the same position as the supervisor (no set format). Unnecessary for those who completed graduated school in Japan or for those who are expected to complete by March 2016.
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) from 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" on pp.18-21 or GSIS website

(http://www.is.tohoku.ac.jp/entrance/) 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.9-15.

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

Specia	lized subject group	Lahamatamyaadaa	Domontonout
Group code	Name	Laboratory codes	Department
1	Mathematics	A01-1, A01-2, A02-1, A02-2, A03, A04	Computer and Mathematical Sciences
1	Wathematics	B01-1, B01-2, B02-1, B02-2, B02-3, B03	System Information Sciences
		A05, A07, A08, A09, A10, A11, A13, A14, A16, A17	Computer and Mathematical Sciences
2	Information and Biosystems	B04, B05,B06, B07, B08, B11, B12, B13-1, B13-2, B15	System Information Sciences
		D01, D02, D04, D05, D07, D08, D10, D11, D12, D13	Applied Information Sciences
		A06-1, A06-2, A12, A15-1, A15-2,	Computer and Mathematical
3	Machine and	A15-3	Sciences
3	Intelligence	B09, B10-1, B10-2, B14	System Information Sciences
		D03-1, D03-2, D09	Applied Information Sciences
4	Civil Engineering	C11-1, C11-2, C12-1, C12-2, C13-	Human-Social Information
4	Civil Engineering	1, C13-2	Sciences
5	Languages and	C01 C06 C14 C15	Human-Social Information
3	Media	C01, C06, C14, C15	Sciences
	Davida da avi an d	C02, C03, C04, C05, C16	Human-Social Information
6	Psychology and	C02, C03, C04, C03, C10	Sciences
	Philosophy	D06	Applied Information Sciences
7	Social Sciences	C07, C08, C09, C10	Human-Social Information Sciences

<sup>\*</sup> Aside from the above, the following examination methods can also be chosen.

Special method: In place of the above written and oral examinations, the applicant can produce a paper or 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 December, 2015.

#### (1) Schedule for screening examinations.

Examinations will be held by specialized subject group over 1-3 March 2016 according to the schedule on pp.9-15.

#### (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." (pp.9-15)

#### 3) Mature students

Those applying for admission as mature students should in principle have been employed for two or more years as technicians, teachers or researchers in public office, 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.

The examination dates, start times and the examination content for the various specialized subject groups can be found on pp.16-17. Examination venues will be the same as for (2) General transfer-admission applicants, advancing students from other graduate schools of Tohoku University and applicants for transfer-admission selection for overseas students, etc. noted above.

#### 6. Announcement of successful applicants

The examination code numbers of successful applicants will be listed on GSIS website around 5 p.m. on 7 March 2016 (http://www.is.tohoku.ac.jp/exam/result.html). 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

Instructions concerning the procedures and paperwork for entering the program will be sent along with the admission notification, sometime around the end of March 2014.

#### 9. Costs

(1) Advancing students

Tuition fee (Semester 2) 267,900 yen (subject to change)

(Annual fee: 535,800 yen) (subject to change)

(2) Transfer students

Entrance fee 282,000 yen (subject to change) Tuition fee (Semester 2) 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 advancement or transfer-admission procedures, etc., sent out after the announcement of the examination results.

#### 10. Notes

(1) When submitting an application by mail, use the official application envelope and send it by express registered mail.

- (2) Application documents and the examination fee will not be returned.
- (3) If you have not received an examination admission card by 10 days before the entrance examination, please contact GSIS Educational Affairs Section.
- (4) Consultation is available for those applicants with examination or study needs. Please contact GSIS Educational Affairs Section in this regard by 18 December 2015.
- (5) 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 a 205 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 400 yen stamp attached.
- (6) Provided that there is a request, we will disclose the information regarding the score of the year-2016 entrance examination to those who took the exam and did not pass it. If you are interested in this disclosure system, please refer to GSIS Educational Affairs Section regarding the procedures, etc. Information on entrance examination results, etc. will only be disclosed in response to a disclosure request (prescribed request form) submitted from the entrance examinee and within the 90 days after the announcement of successful applicants.
- (7) 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.

November 2015

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

http://www.is.tohoku.ac.jp/

## Examination schedule and examination content for each subject group

## April 2016

Three-Year Doctoral Program: General transfer-admission selection and examinations for advancing students from other graduate schools of Tohoku University

	Group 1 Mathematics
Oral	3 March 10:00-
examination	Applicants must speak for approximately 20 minutes on the education 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 five copies of materials
	related to your presentation (presentation outline, diagrams, etc.; A4 size).

	Group 2 Information and Biosystems
Written	English
examinations	Applicants must provide at the time of application their original TOEFL or TOEIC
*	scoresheet from an examination taken no more than two years before the first day of the
	entrance examinations. The scoresheet is the Examinee's Score Record in the case of
	TOEFL, and the Official Score Certificate in the case of the TOEIC. When submitting
	TOEFL Official Score Report, please ensure that ETS sends it to GSIS by the final day of
	application. (For mailing, GSIS's DI code is 2149.) Applicants whose native language is
	English should contact GSIS on an individual basis.
	Basic subjects 1 March 9:30-11:30
	Physics and informatics: Select two out of six questions on electromagnetics, electrical
	circuits, fundamentals of informatics 1, fundamentals of
	informatics 2, fundamentals of physics 1, and fundamentals of
	physics 2.
	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.
	Note: Please enter the subjects in which you wish to be examined (physics and informatics
	or medicine and biology) along with the subject area (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/pastexam.html
Oral	2 or 3 March
examination	Applicants will be notified as to the exact date and start time separately.
	Applicants must speak for approximately 20 minutes on the education received at their
	former graduate school or their master's thesis (including theses under production).

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	Group 3 Machine and Intelligence
Written	English
examinations	Applicants must provide at the time of application their original TOEFL or TOEIC
*	scoresheet from an examination taken no more than two years before the first day of the
	entrance examinations. The scoresheet is the Examinee's Score Record in the case of
	TOEFL, and the Official Score Certificate in the case of TOEIC. When submitting the
	TOEFL Official Score Report, please ensure that ETS sends it to GSIS by the final day of
	application. (For mailing, GSIS's DI code is 2149.) Applicants whose native language is
	English should contact GSIS on an individual basis.
	Mathematics A 1 March 10:30-12:00 (Meeting time 10:00)
	Differential and integral calculus, linear algebra, vector analysis, ordinary differential
	equations
	Mathematics B 1 March 13:30-15:00
	Fourier series and transform, Laplace transform, partial differential equations
	Specialized subjects 2 March 9:00-12:00 (Meeting time 8:30)
	(Select two out of the following eight subjects. Applicants are required to give prior notice
	of the subjects they have chosen.) Thermodynamics, fluid mechanics, material dynamics,
	mechanical dynamics, control engineering, material physics, electromagnetics, and quantum
	mechanics.
Oral	3 March Applicants will be notified as to the exact date and start time separately.
examination	Only those who pass the written examination and those who are excused of taking the
	written examination are to take the oral examination.
	Applicants must speak for approximately 20 minutes on the education they received at their
	previous 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	1 or 2 March
examination	Applicants will be notified as to the exact date and start time separately.  Applicants must speak for no longer than 15 minutes on the education they received at their former university or 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.) You will be asked about your presentation, your drive and motivation, and research goals following admission, etc. On the day of the examination, bring eight copies of materials related to your presentation (presentation outline, diagrams, etc., A4 size).
Written examinations *	English Applicants must provide at the time of application their original TOEFL or TOEIC scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Examinee's Score Record in the case of TOEFL, and the Official Score Certificate in the case of TOEIC. When submitting the TOEFL Official Score Report, please ensure that ETS sends it to GSIS by the final day of application. (For mailing, GSIS's DI code is 2149.)

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	Group 5 Languages and Media
Written	Specialized subjects 2 March 10:00-13:00
examinations	Answer three questions from these areas: general linguistics, syntax, semantics,
*	morphology, semiotics, literary theory, literary hermeneutics, media, information literacy,
	cultural studies, German, and French. Applicants for either languages or media should
	ensure that they answer at least two 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.
	Foreign language 2 March 14:30-15:30 English
Oral	3 March 10:00-
examination	Applicants must speak for approximately 15 minutes on the education they received at their
Cxammation	previous graduate school and their master's thesis (including theses under production) and
	their desired future research after the entrance. (PC projectors can be used.) On the day of
	the examination, bring five copies of the materials related to your presentation (presentation
	outline, drawings, etc.; (A4 size).
	Group 6 Psychology and Philosophy
Written	Specialized subjects 2 March 10:00-13:00
examinations	Select two out of 12 questions from these areas: psychology (history of psychology,
*	cognition, learning and memory, personality) and philosophy (history of philosophy) If you
	wish to study cognitive informatics, human learning and memory or cognitive psychology,
	you will be required to produce a short essay (topic to be indicated at the examination
	venue).
	Foreign language 2 March 14:30-15:30 English
Oral	3 March 10:00-
examination	Applicants must speak for approximately 20 minutes on the education they received at their
	previous 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).
	Group 7 Social Sciences
Written	English
examinations	Applicants must provide at the time of application their original TOEFL or TOEIC
*	scoresheet from an examination taken no more than two years before the first day of the
	entrance examinations. The scoresheet is the Examinee's Score Record in the case of
	TOEFL, and the Official Score Certificate in the case of TOEIC. When submitting the
	TOEFL Official Score Report, please ensure that ETS sends it to GSIS by the final day of
	1 ADDITICATION (FOLIMATING VINIA STALCOGE IS 2.149.)
	application. (For mailing, GSIS's DI code is 2149.)  Specialized subjects 2 March 10:00-13:00
	Specialized subjects 2 March 10:00-13:00
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories:
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods. Politics: select three out of five questions from the following areas: political consciousness,
	Specialized subjects 2 March 10:00-13:00  Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.
	Specialized subjects 2 March 10:00-13:00  Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics,
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.  As necessary, the examiner will supply calculators.
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.  As necessary, the examiner will supply calculators.  * State the name of the categories (sociology, politics, or economics) in the application,
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.  As necessary, the examiner will supply calculators.  * 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
Oral	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.  As necessary, the examiner will supply calculators.  * 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.
Oral	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.  As necessary, the examiner will supply calculators.  * 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.  3 March 10:00-
Oral examination	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.  As necessary, the examiner will supply calculators.  * 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.  3 March 10:00- Applicants must speak for approximately 20 minutes on the education they received at their
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.  As necessary, the examiner will supply calculators.  * 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.  3 March 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
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.  As necessary, the examiner will supply calculators.  * 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.  3 March 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.) The examiners will ask questions for approximately 10 minutes. On
	Specialized subjects 2 March 10:00-13:00 Select one of the following categories: Sociology: select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, family sociology and social research methods.  Politics: select three out of five questions from the following areas: political consciousness, public administration, political processes, statistics and social research methods.  Economics: select three out of five questions from the following areas: microeconomics, macroeconomics, urban and regional economics, statistics and mathematics for economics.  As necessary, the examiner will supply calculators.  * 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.  3 March 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

<sup>\*</sup> In each of the subject groups, applicants may be exempted from the written examinations according to the content of their academic transcripts. A TOEFL or TOEIC scoresheet must still be provided at the time of application for subject groups 2, 3, 4 and 7.

# April 2016

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

	Group 1 Mathematics
Oral	3 March 10:00-
examination	Applicants must speak for approximately 20 minutes on the education they received at their former graduation 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 the materials related to your presentation (presentation outline, drawings, etc.; (A4 size).

	Group 2 Information and Biosystems
Written	Basic subjects 1 March 9:30-11:30
examinations	Physics and informatics: Select two out of six questions on electromagnetics, electrical
*	circuits, fundamentals of informatics 1, fundamentals of
	informatics 2, fundamentals of physics 1 and fundamentals of
	physics 2.
	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.
	English
	Applicants must provide at the time of application their original TOEFL or TOEIC
	scoresheet from an examination taken no more than two years before the first day of the
	entrance examinations. The scoresheet is the Examinee's Score Record in the case of
	TOEFL, and Official Score Certificate in the case of TOEIC. When submitting the TOEFL
	Official Score Report, please ensure that ETS sends it to GSIS by the final day of
	application. (For mailing, GSIS's DI code is 2149.) Applicants whose native language is
	English should contact GSIS on an individual basis.
	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/pastexam.html
Oral	2 or 3 March
examination	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 or their master's thesis (including theses under production).

 ${\bf April~2016} \\ {\bf Three-Year~Doctoral~Program:~Transfer-admission~selection~for~overseas~students,~etc.}$ 

	Group 3 Machine and Intelligence
Written	English
examinations	Applicants must provide at the time of application their original TOEFL or TOEIC
*	scoresheet from an examination taken no more than two years before the first day of the
	entrance examinations. The scoresheet is the Examinee's Score Record in the case of
	TOEFL, and the Official Score Certificate in the case of TOEIC. When submitting the
	TOEFL Official Score Report, please ensure that ETS sends it to GSIS by the final day of
	application. (For mailing, GSIS's DI code is 2149.) Applicants whose native language is
	English should contact GSIS on an individual basis.
	Mathematics A 1 March 10:30-12:00 (Meeting time 10:00)
	Differential and integral calculus, linear algebra, vector analysis, ordinary differential
	equations
	Mathematics B 1 March 13:30-15:00
	Fourier series and transform, Laplace transform, partial differential equations
	Specialized subjects 2 March 9:00-12:00 (Meeting time 8:30)
	(Select two out of the following eight subjects. Applicants are required to give prior notice
	of the subjects they have chosen.) Thermodynamics, fluid mechanics, material dynamics,
	mechanical dynamics, control engineering, material physics, electromagnetics and quantum
	mechanics
Oral	3 March
examination	Applicants will be notified of the meeting time separately.
	Only those who have passed the written examination or who were exempt from that
	examination will be eligible for the oral examination. Applicants must speak for
	approximately 20 minutes on the education they received at their former university 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	1 or 2 March
examination	Applicants will be notified as to the exact date and start time separately.
	Applicants must speak for no more than 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, drive and motivation, 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	English
examinations	Applicants must provide at the time of application their original TOEFL or TOEIC
*	scoresheet from an examination taken no more than two years before the first day of the
	entrance examinations. The scoresheet is the Examinee's Score Record in the case of
	TOEFL, and the Official Score Certificate in the case of TOEIC. When submitting the
	TOEFL Official Score Report, please ensure that ETS sends it to GSIS by the final day of application. (For mailing, GSIS's DI code is 2149.)
	Specialized subjects 1 March 13:00-15:00
	There will be a written examination taking account of the specialization of the applicant.
	Notes
	(1) As for the area of the specialization, choose three questions out of four offered.
	(2) As for the content of the area of the specialization, consult the faculty member who is expected to be the academic advisor.

 ${\bf April~2016} \\ {\bf Three-Year~Doctoral~Program:~Transfer-admission~selection~for~overseas~students,~etc.}$ 

	Group 5 Languages and Media
Written	Specialized subjects 2 March 10:00-13:00
examinations *	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.
	Foreign languages 2 March 14:30-15:30
	English or Japanese
Oral	3 March 10:00-
examination	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) and their desired future research after the entrance. (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.

	Group 6 Psychology and Philosophy
Written	Specialized subjects 2 March 10:00-13:00
examinations *	Select two out of 12 questions from these areas: psychology (history of psychology, cognition, learning and memory, personality) and philosophy (history of philosophy). If you wish to be assigned to either of the following labs (cognitive informatics, human learning, memory or cognitive psychology and communication psychology), you will be required to produce a short essay (topic to be indicated at the examination venue).
	Foreign languages 2 March 14:30-15:30
	English and Japanese
Oral	3 March 10:00-
examination	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.

	Group 7 Social Sciences
Written	English
examinations	Applicants must provide at the time of application their original TOEFL or TOEIC
*	scoresheet from an examination taken no more than two years before the first day of the
	entrance examinations. The scoresheet is the Examinee's Score Record in the case of
	TOEFL, and the Official Score Certificate in the case of TOEIC. When submitting the
	TOEFL Official Score Report, please ensure that ETS sends it to GSIS by the final time of
	application. (For mailing, GSIS's DI code is 2149.)
	Specialized subjects 2 March 10:00-13:00
	Select one of the following categories:
	Sociology: Select three out of five questions from the following areas: the history of
	sociology, contemporary society, urban sociology, rural sociology and family
	sociology. (Examination method: Short essay)
	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. (Examination method: Short essay)
	Economics: Select two out of four questions from the following areas: microeconomics,
	macroeconomics, urban economics, regional economics, statistics, econometrics,
	and mathematics for economics and write a short essay.
	Questions may be answered in English. As necessary, the examiner will supply calculators.
	* 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
0.1	allowed after the application has been submitted.
Oral	3 March 10:00-
examination	Applicants must speak for approximately 20 minutes on the education they received at their
	former university and their master's 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
ΨT 1 C.1 1	(presentation outline, diagrams, etc.; A4 size). Presentations can be given in English.

<sup>\*</sup> In each of the subject groups, applicants may be exempted from the written examinations according to the content of their academic transcripts. A TOEFL or TOEIC scoresheet must still be provided at the time of application for subject groups 1, 2, 3, 4 and 7.

April 2015

# Three-Year Doctoral Program: Transfer-admission selection for mature students

	Group 1 Mathematics
Oral	3 March 13:30-
examination	Applicants will be notified as to the exact date and start time separately.
	Applicants must speak for approximately 20 minutes on their main area of mathematical
	research either at their workplace or on a personal basis. (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).

	Group 2 Information and Biosystems
Oral	2 March
examination	Applicants will be notified as to the exact date and start time separately.
	Applicants must speak for approximately 20 minutes on their research (work) to date and
	their research goals following admission, etc.

	Group 3 Machine and Intelligence
Written	Choose two out of 10 subjects from Mathematics A, Mathematics B and specialized
examinations	subjects. (Notify GSIS of these in advance.) The time at which the written examination
*	finishes for specialized subjects will vary according to the subject chosen.
	Mathematics A 1 March 10:30-12:00 (Meeting time 10:00)
	Differential and integral calculus, linear algebra, vector analysis, ordinary differential
	equations
	Mathematics B 1 March 13:30-15:00
	Fourier series and transform, Laplace transform, partial differential equations
	Specialized subjects 2 March 9:00-12:00 (Meeting time 8:30)
	Thermodynamics, fluid mechanics, material dynamics, mechanical dynamics, control
	engineering, material physics, electromagnetics, quantum mechanics
Oral	3 March
examination	Applicants will be notified of the meeting time separately.
	Only those who have passed the written examination or who were exempt from that
	examination will be eligible for the oral examination. Applicants must speak for
	approximately 15 minutes on their research to date and their research goals after admission.
	(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). Your English
	ability may also be subject to evaluation.
	Note: Some applicants may be exempted from the written examinations as a result of prior
	screening of their documentation. For details, please contact Machine and Intelligence
	educational affairs section.
	Contact point: Machine and Intelligence educational affairs officer
	Tel: 022-795-7030

April 2016

# Three-Year Doctoral Program: Transfer-admission selection for mature students

	Group 4 Civil Engineering
Short essay	1 March 9:30-11:00
	A theme on civil engineering
Oral	1 March 13:00-
examination	Applicants must speak for no more than 15 minutes on their research or work at their
	workplace. (PC projectors can be used. If you wish to use a PC projector, please contact the
	Educational Affairs Section beforehand.) On the day of the examination, bring eight copies
	of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).

	Group 5 Languages and Media
Short essay	2 March 10:00-11:30
	The applicant must answer the essay question given on the examination day.
Oral	3 March 10:00-
examination	Applicants will be notified as to the time of the examination separately.
	Applicants must speak for approximately 15 minutes on their research or work at their
	workplace and future research project. (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).

	Group 6 Psychology and Philosophy
Short essay	2 March 10:00-11:30
	Theme to be indicated on the day of the examination.
Oral	3 March 10:00-
examination	Applicants must speak for approximately 20 minutes on their research or work at their
	workplace and their research plans after admission. (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).

	Group 7 Social Sciences
Short essay	2 March 10:00-13:00
	Select one of the themes indicated at the time of the examination and produce a short essay.
	Themes will relate to proposed research areas across sociology, politics and economics.
Oral	3 March
examination	Applicants will be notified of the time of the examination separately.
	Applicants must speak for approximately 20 minutes on their research or work at their
	workplace. (PC projectors can be used.) The examiners will ask questions for around 10
	minutes. On the day of the examination, bring five copies of materials related to your
	presentation (presentation outline, diagrams, etc.; A4 size).

# List of laboratories (areas) within Tohoku University Graduate School of Information Sciences 2016

\* For details on the research, etc., at these laboratories (areas), please see GSIS's website at: http://www.is.tohoku.ac.jp/entrance

Group code	Group	Division	Laboratory (Area)	Lab.	Staff	Department
		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	
1	Mathematics		Mathematical Structures IV	A04	Prof. Hiromi SENO	
1	Wathematics		Mathematical	B01-1	Prof. Masaaki HARADA	
			System Analysis I	B01-2	Assoc. Prof. Jun MASAMUNE	]
		Mathematical System		B02-1	Prof. Nobuaki OBATA	System Information
		Analysis	Mathematical System Analysis II	B02-2	Assoc. Prof. Reika FUKUIZUMI	Sciences
				B02-3	Assoc. Prof. Etsuo SEGAWA	
			Mathematical System Analysis III	В03	Prof. Shigeru SAKAGUCHI	
	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	Prof. Takafumi AOKI Assoc. Prof. Naofumi HOMMA	
			Intelligent Integrated Systems	A09	Assoc. Prof. Masanori HARIYAMA	
		Systems	Firmware Science	A10	(Currently vacant)	
2			Foundations of Software Science	A11	Prof. Eijiro SUMII Assoc. Prof. Kazutaka MATSUDA	
		Logic for Information Science  Communication Theory	Logic for Information Science	A13	Prof. Yoshihito TOYAMA**	
					Assoc. Prof. Takahito AOTO	
			Communication Theory	A14	Prof. Tetsuo KINOSHITA Assoc. Prof. Gen	
		Information Security	Information Security		KITAGATA Prof. Hiroki SHIZUYA	
				A16	Assoc. Prof. Masao SAKAI Assoc. Prof. Shuji ISOBE	

		Environmental Informatics	Environmental Informatics	A17	Prof. Jun-ichi KUDOH	
			Algorithm Theory	B04	Prof. Xiau. ZHOU Assoc. Prof. Takehiro ITO	
		Intelligent Information Science	Intelligent Systems Science	B05	Prof. Ayumi SHINOHARA	
			Communication Science	B06	Prof. Kentaro INUI Assoc. Prof. Naoaki OKAZAKI	
			Information Biology	B07	Prof. Keiichi ITOI	
		Biosystem Information Sciences  Acoustic Information	Design and Analysis of Information Systems	В08	Prof. Takeshi TOKUYAMA Assoc. Prof. Jinhee CHUN	System Information
			Acoustic Information	B11	Prof. Yo-iti SUZUKI Assoc. Prof. Shuichi SAKAMOTO	Sciences
		Visual Cognition and Systems	Visual Cognition and Systems	B12	Prof. Satoshi SHIOIRI Assoc. Prof. Ichiro KURIKI	
		Information		B13-1	Prof. Yoshifumi KITAMURA	
		Contents	Information Contents	B13-2	Assoc. Prof. Terumasa AOKI	
		Software Construction	Software Construction	B15	Prof. Atsushi OHORI	
		Information and Applied Technology	Physical Fluctuaomatics	D01	Prof. Kazuyuki TANAKA Assoc. Prof. Yuji WAIZUMI	
			Information Technology	D02	Prof. Nei KATO Assoc. Prof. Hiroki NISHIYAMA	
		Applied Informatics for Human and Life Sciences	Systems Bioinformatics	D04	Prof. Kengo KINOSHITA Assoc. Prof. Takeshi OOBAYASHI	
	Information		Biomodeling	D05	Prof. Mitsuyuki NAKAO Assoc. Prof. Norihiro KATAYAMA	Applied
	and Biosystems	Applied Intelligence Software	Applied Intelligence Software	D07	Prof. Takuo SUGANUMA Assoc. Prof. Toru ABE	Information Sciences
		Information Network Systems Brain Function Integration	Information Network Systems	D08	Prof. Hideaki SONE Assoc. Prof. Takaaki MIZUKI	
			Brain Function Integration	D10	(Currently vacant)	
		Health Informatics	Health Informatics	D11	Prof. Yoshitaka KINOUCHI Prof. Chihiro ITO Assoc. Prof. Shin OGAWA Assoc. Prof. Kimio SATO	

		Statistical Science for Complex systems	Statistical Science for Complex systems	D12	Prof. Atsushi YOSHIMOTO Assoc. Prof. Yumi TAKIZAWA Assoc. Prof. Fumikazu MIWAKEICHI	
		Biomedical Information analysis	Biomedical Information Analysis	D13	Prof. Masao NAGASAKI Assoc. Prof. Riu YAMASHITA	
		Applied Mathematical	Mathematical	A06-1	Prof. Satoru YAMAMOTO	
		Science	Modeling and Computation	A06-2	Assoc. Prof. Kentaro SANO	Computer and Mathematical
		Software Science and Systems	Computer Architecture	A12	Prof. Satoru YAMAMOTO Assoc. Prof. Hiroyuki TAKIZAWA	
		Ultra-		A15-1	Prof. Hiroaki KOBAYASHI	Sciences
		Highspeed Information	Ultra-Highspeed Information	A15-2	Assoc. Prof. Hideaki GOTO	
	Machine and	Processing	Processing	A15-3	Assoc. Prof. Ryusuke EGAWA	-
3	Intelligence		Image Analysis	B09	Prof. Takayuki OKATANI	
		Intelligent Robotics	Intelligent Control Systems	B10-1	Prof. Koichi HASHIMOTO	System Information Sciences
				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
				D03-2	Assoc. Prof. Masashi KONYO	
	Civil Engineering	Flow System Informatics	Flow System Informatics	D09	Prof. Yuji HATTORI	Sciences
			Transportation and	C11-1	Prof. Masao KUWAHARA	
		Infrastructure Planning	Geographic Information Science	C11-2	Assoc. Prof. Ryo INOUE	Human-Social Information Sciences
			Regional and Urban Planning	C12-1	Prof. Tatsuhito KONO	
4				C12-2	Assoc. Prof. Junya FUKUMOTO	
			Road Transportation	C13-1	Prof. Takashi AKAMATSU	
			and Traffic	C13-2	Assoc. Prof. Shunsuke HAYASHI	
5	Languages and Media	Science	Language and Information Science	C01	Assoc. Prof. Akira KIKUCHI	
			Verbal Text Analysis	C06	Prof. Yoshiki OGAWA Assoc. Prof. Akiko NAGANO	Human-Social Information
		Media and	Media and Culture	C14	Prof. Tatsuya HORITA Senior Assis. Prof. Kuniko SAKATA	Sciences

			Media and Semiotics	C15	Assoc. Prof. Shunichi KUBO Assoc. Prof. Naoko MORITA	
	Psychology and Philosophy Social Sciences	Human Information Science	Human Learning and Memory	C02	(Currently vacant)	Human-Social Information Sciences
			Cognitive Psychology	C03	Assoc. Prof. Yuichi WADA	
			Philosophy of Human Information	C04	Prof. Ichiro MORI	
6			Philosophy of Logical Analysis	C05	Assoc. Prof. Kazuhisa SINOZAWA	
		Cognitive Psychology of Communication	Cognitive Psychology of Communication	C16	Prof. Toshiaki MURAMOTO	
		Applied Informatics for Human and Life Sciences	Cognitive Psychology	D06	(Currently vacant)	Applied Information Sciences
		Socio-Politico Information	Theory of Social Structure and Change	C07	Prof. Kazuho KOBAYASHI* Assoc. Prof. Naohito TOKUGAWA	
7		Science	Political Informatics	C08	Assoc. Prof. Kazunori KAWAMURA	Human-Social Information
		Socio- Economic Information Science	Socio-Economic Analysis of Urban System	C09	Prof. Dao-Zhi ZENG Assoc. Prof. Ryo ITOH	Sciences
			Econometric System Analysis	C10	Prof. Asao ANDO*	

<sup>\*</sup> Teaching staff due to retire in March, 2017. \*\* Teaching staff due to retire in March, 2018.