

2011 Applicant Guidelines for Doctoral Programs (First Stage) of Graduate School of Information Science, Nagoya University (Second Round of Admissions)

Important Notice: The Japanese version of Applicant Guidelines for Doctoral Programs of Graduate School of Information Science, Nagoya University serves as the official guidebook. This English translation is provided only for applicants' convenience. All notions should be understood as Japanese time, currency, regulations, organizations and so on, unless otherwise specified.

The Graduate School of Information Science invites applicants for admission to the first stage of doctoral programs (equivalent to a master's course) for the academic year 2011, in accordance with the following guidelines.

1. Qualifications for Application

Applicants must meet at least one of the following conditions:

- (1) University graduates, or will graduate from university by March 31, 2011
- (2) Persons who have obtained or will obtain, by March 31 2011, a bachelor's degree from the National Institution for Academic Degrees, which as specified by the School Education Law, Article 104, Section 4, No.1
- (3) Persons who have completed, or will complete by March 31, 2011, 16 years of academic education in a foreign country
- (4) Persons who have completed, or will complete by March 31, 2011, 16 years of academic education in Japan through correspondence courses run by foreign educational institutes.
- (5) Applicants who have completed an undergraduate course of a foreign university in Japan, which is an educational establishment approved in that particular foreign country (the applicants must have completed 16 years of school education in their education system) and have qualifications approved by the Ministry of Education, Culture, Sports, Science and Technology, Japan
- (6) Applicants who have completed (or will complete by March 31, 2011) an advanced professional course of a professional training college. The course must fulfill the requirements set by the Ministry of Education, Culture, Sports, Science and Technology (e.g., offering a minimum of four years of education) and be recognized by the Ministry of Education, Culture, Sports, Science and Technology, as such. Applicants must have graduated from the course after the date of approval by the Ministry of Education, Culture, Sports, Science, and Technology.
- (7) Persons who have qualifications approved by the Minister of Education, Culture, Sports, Science and Technology, Japan. (Notification No.5 of the Ministry of Education, 1953)
- (8) Persons who have completed or will complete more than 3 years at university by March 31, 2011 or those who have completed 15 years of education in an education system in a foreign country or enrolled in a foreign university in Japan, which is approved by that foreign country's school education system (the applicants must be recognized to have completed 15 years in the education system), and those who have qualifications approved by the Ministry of Education, Culture, Sports, Science and Technology, Japan and who have been recognized by our Graduate School as having excellent results of the required credits.

Note: Those who submit application forms on the basis of Qualifications for Application (8) above must refer to "Candidates Applying under the Qualifications for Application (8)" in page 9.

- (9) Persons who will be 22 years of age or over as of March 31, 2011, and have been recognized by our Graduate School, based on the results of individual examinations of the applicant's qualifications, as having academic abilities equivalent or superior to university graduates.

Note: Those who submit application forms on the basis of the Qualifications for Application (9) above must contact the Graduate School by December 8, 2010

2. Numbers of Students to Be Admitted

Dept. of Computer Science and Mathematical Informatics	A Few Students
Dept. of Information Engineering	A Few Students
Dept. of Media Science	A Few Students
Dept. of Complex Systems Science	A Few Students
Dept. of Systems and Social Informatics	A Few Students

There may be cases whereby successful applicants may not be able to receive supervision from the professor of their choice due to educational considerations. It is advised to contact the professor of your choice in advance.

3. Application Period

Applications will be accepted between January 12 (Wed.), 2011 and January 18 (Tue.), 2011(except Saturday, Sunday and public holiday). Reception time is from 9:00 a.m. to 4:00 p.m. except 12:00 a.m. to 1:00 p.m.

4. Application Documents

Documents required for all applicants

- (1) Application Form (Complete form prescribed by our Graduate School)
- (2) Examination Card and Photograph Card (Complete cards prescribed by our Graduate School)
- (3) Objectives and study plan (Complete form prescribed by our Graduate School)
- (4) Personal History (Complete form prescribed by our Graduate School)
- (5) Receipt of Payment, Record of Receipt (Enter only your name in forms prescribed by our Graduate School)
- (6) 2 self-addressed envelopes (one for sending Examination Card, the other for correspondence)
You must submit 2 self-addressed envelopes prescribed by our Graduate School with the address at which you will receive the envelopes, prefecture code, and name. A 350-yen stamp should be attached to the envelope for correspondence. (However, for overseas students relevant charges for the overseas will be applicable).
- (7) Address label (Write necessary items on label prescribed by our Graduate School)
- (8) Certificate for (prospective) graduation or a document certifying qualification for application
- (9) Official transcript of academic records (issued by your last university)
- (10) Examination fee (30,000 yen by postal money order, on which name and address of designated payee should not be written) (For overseas applicants are requested to contact us if ordinary postal order (Money Order) is not available.)
- (11) If the applicant has a dissertation or other material that indicates his/her research abilities, it is desirable to submit a copy of such material and, if necessary, an abstract.

Documents to be submitted only by applicable candidates

- (1) Applicants applying for Dept. of Information Engineering, Media Science and Systems and Social Informatics are asked to submit a copy of score sheet of their external English ability tests, like TOEIC (Open test only), TOEFL-PBT(Paper-Based Test), TOEFL-CBT(Computer-Based Test), TOEFL-iBT next generation (Internet Based test). Please state `True copy of the original`, sign and self attest the photocopy for authentication, Further, also make sure to submit the score sheets which are valid after 1st April 2007.
- (2) Applicants applying for Dept. of Computer Science and Mathematical Engineering and Complex System Science can get their external English tests results and the entrance English exam results combined as mentioned in (1)6.1 of page number 3. Those who desires to do so should submit a photocopy of their English ability test score sheet same as (1). Please state `True copy of the original`, sign and self attest the photocopy for authentication. Further, also make sure to submit the score sheets which are valid after 1st April 2007.
- (3) Foreign applicants residing in Japan must submit an alien registration certificate issued by their municipality office. However, those with permanent residency need not submit this document.
Overseas residents must submit a document certifying nationality and resident's eligibility (for example, a copy of your passport showing nationality and resident status).
- (4) Applicants applying for Dept. of Media Science must submit a subject selection form about special subjects.
- (5) Applicants serving in government and other public offices, companies and other organizations, and who will remain in service even after enrollment, must submit the organization's written consent regarding application for admission (no prescribed form).
- (6) If a foreign applicant studying in Japan has taken the Japanese Language Proficiency Test, it is desirable to submit a certificate or a score report. When submitting a copy: please state `True copy of the original`, sign and self attest the photocopy for authentication.

5. Application Procedures

Applicants must put all documents required for application in the envelope prescribed by our Graduate School for sending application documents, and submit to the Academic & Students Affairs Section, Graduate School of Information Science or send it by registered mail.

Points to note

- (1) In case submitting by hand, it is recommended that the applicant him/herself brings the documents.
- (2) When sending by mail, it must reach the Office no later than 16:00, January 18 (Tue.), 2011 by registered mail.
- (3) Admission tickets will be sent to the applicants by mail. (If the ticket does not arrive until two days before the examination, please confirm it with the Academic and Students Affairs Section of the Graduate School of Information Science.)
- (4) Be careful not to submit incomplete application documents since they will not be accepted.
- (5) After an application has been filed, we will not allow any changes to application documents, nor refund examination fees.

- (6) You may supplement the result of your external English ability tests by February 2, 2010 (Wed), no later than 16:00, either in person or through registered mail. We do not accept any submission after the deadline or replacement after the submission. If the result does not arrive before the deadline, the application may be cancelled.

6. Selection

6.1 Acceptance of the Results of External English Examinations

(1) Those applicants for Dept. of Computer Science and Mathematical Informatics and Complex System Science who submitted results of external English examinations such as TOEIC (limited to open examinations), TOEFL-PBT (Written examination of TOEFL), TOEFL-CBT (TOEFL examination by computer), and TOEFL-iBT (TOEFL examination by internet), the results will be converted to suit the level of our Graduate School and will be compared with the result of the English examination of the entrance examinations and the better result will be taken as the final result. However, for applicants who submit a result of external examinations, it is optional to take the English examination of our Graduate School.

(2) In case of applicants applying for Dept. of Information Engineering, Media Science and Systems & Social Science, the test scores of the external English tests like, TOEIC (Open test only), TOEFL-PBT (Paper-Based Test), TOEFL-CBT (Computer-Based Test), TOEFL-iBT next generation (Internet Based test) will be considered for their English ability. There will be no written entrance exam for English.

The conversion criterion is shown in the following table. It was made by referring to the website of The Educational Testing Network Service.

TOEIC	TOEFL-PBT	TOEFL-CBT	TOEFL-iBT	Converted Score
395	433	120	40	40
495	468	147	51	50
590	501	173	61	60
690	536	203	74	70
790	570	230	88	80
890	605	250	100	90
990	640	273	111	100

6.2 Details of Selection Methods

- (1) Successful applicants for admission to our programs will be selected on the basis of overall evaluation of the result of the English examination, specialty examination, viva voce and application documents.
- (2) The schedules of English examination, specialty examination and viva voce are shown below.
- (3) Announcement of the venues of English examination, specialty examination and viva voce will be posted on the examination day at the entrance to the Graduate School of Information Science building (see attached map).
- (4) Applicants must arrive at the examination rooms at least 30 minutes before the starting time of the examination.
- (5) In the case of English examination and the written examination of the Department of Computer Science and Mathematical Informatics, if the applicants be late within 30 minutes, he/she can take the exam.
- (6) In the case of Specialty Examination (oral) and viva voce, if the applicants be late, he/she cannot take the exam in principle.

6.3 Entrance Exam Details

(1) English 9th February 2011 (Wed.)

Department	Test Timings Test Type	Others
Computer Science and Mathematical Informatics	10:00~11:00 (Written Test)	Using or carrying dictionaries is strictly prohibited
Complex System Science	10:00~11:00 (Written Test)	One dictionary (English-Japanese or English to mother tongue) can be used. However, an electronic dictionary or any dictionary that has more functions than permitted above, such as Japanese-English dictionary, will not be allowed.

(2) Specialty Examination 9th February 2011 (Wed.)

Department	Test Timings Test Type	Examination Subjects (Items in parentheses are topics to be covered.)
Computer Science and Mathematical Informatics	12:30~14:00 Written Exam	Choose and answer two questions out of three to come from basic mathematics (linear algebra, differential & integral calculus), discrete mathematics.
Information Engineering	12:30~ Viva Voce	<p>(a) And (b) will be conducted for approximately 30 minutes per candidate.</p> <p>(a) An viva voce of Information Engineering (Hardware, Software, Computer theory)</p> <p>(b) Presentation of the research undertaken at Under-Graduate level</p> <p>If there is no Under-Graduate thesis, presentation of the seminar topic taken up by the candidate at under graduation and if none of the above is available then presentation of the proposal which candidate desires to take up in this Graduate School.</p> <p>Candidate is should come prepared with 15 copies of the handout (one page of A4 size). There is no fixed format for the handout but make sure to mention your name and examinee number on it.</p>
Media Science	12:30~ Viva Voce	<p>The viva voce is of 30 to 40 minutes duration and consists of questions from two subjects selected out of six by the candidate and the research (Undergraduate research) carried on until now. Those who are applying for Media Science make sure to fill the necessary items in the separate subject Selection Form attached with the application. In addition, on the day of exam bring 10 copies of the research outline (including Under-Graduate research or thesis) done until now.</p> <p>Analysis/linear algebra Probability/statistics Digital signal processing Sensation/Perception (Questions on basic knowledge about Sensation / perception will be asked.) Learning/Memory (Questions on basic knowledge about Learning / memory will be asked.) Cognition /problem-solving (Questions on basic knowledge about Cognition/problem-solving will be asked.)</p>
Complex System Science	11:45~ Viva Voce	<p>(1) The exam will be approximately of 30 minutes duration for each candidate</p> <p>The applicant will be asked to give a presentation on his / her Under- Graduate research or research done until now for 10 minutes (maximum 15 minutes), using LCD Projector. Based on this exam, candidate's academic ability, research ability communication ability and motivation to learn will be evaluated. Bring your own laptops for connecting to LCD projector for presentation. At times, there is a problem in connecting PC to projector due configuration, so candidates are advised to carry a USB stick with a copy of presentations saved on it.</p>
Systems and Social Informatics	12:30~ Viva Voce	<p>(1) The exam will be approximately of 30 minutes duration for each candidate</p> <p>Candidate is asked to give presentation on his / her Under-Graduate research (approximately 10 minutes)</p> <p>Candidate's gives presentation on their Under-Graduate research, seminars or leaning activities they spend time on while at that level or on the topic they want to carry out their research in the Graduate school. Candidate's are required to carry 20 copies of an outline (there is no fixed format) of their research summarized on A4 size paper. The presentation can be given with the help of A4 size handout prepared by the candidates or by using personal Laptops (which the applicants should bring if they desire). LCD projector will also be prepared in the examination room and candidates are welcome to use it.</p> <p>(2) Question and Answer session (Approximately 20 minutes duration)</p> <p>In this session, the basic ability of the candidate will be evaluated through questions and answers with regard to their academic achievements and background (affiliation). There will also be questions on their research presentation. Furthermore, applicants' communication ability and willingness to study further will be also evaluated through questions on their objective for applying in this department and desired research theme.</p>

(3) Viva Voce

Department	Timings
Dept. Of Computer Science and Mathematical Informatics	February 9 (Wed.) After the written exam However, if the number of the candidates applying is more, then there is possibility of changing the date to February 10 (Thu.) There is also a possibility of starting the exam from 9:30. Therefore, candidate is requested to keep a track of it. Date and timings of viva-voce will be informed with the admission ticket.
Dept. of Information Engineering	February 9 (Wed.) during Viva Voce
Dept. of Media Science	February 9 (Wed.) during Viva Voce
Dept. of Complex System Science	February 9 (Wed.) during Viva Voce
Dept. System and social Informatics	February 9 (Wed.) during Viva Voce

7. Announcement of Admissions

Announcement of admissions results will be posted at noon, February 17 (Thu.), 2011, at the entrance of the Graduate School of Information Science building. The results will also be notified to each applicant by mail.

8. Registration Procedures

Registration procedures will be communicated to the prospective students in early March 2011. The procedures should be carried out toward the end of March 2011.

9. Registration and Tuition Fees

(1) Registration fee: 282,000 yen

(2) Tuition fee: 267,900 yen for spring semester (535,800 yen for full year)

Note1: Registration fee should be paid at the time of enrollment. Tuition fee should be paid for Spring semester in April and for Fall semester in October.

Note2: If tuition and other fees are revised at time of enrollment or while you are enrolled in our graduate school, the revised payment amount will apply from the time of revision.

10. For Overseas Applicants

(1) Objectives and Study Plan may be written in English.

(2) Convenience for Written Examinations

	English (Written Test)	Specialty (Written Test)
Dept. of Computer Science and Mathematical Informatics	Nothing Specific	Answers in English accepted Only <u>one</u> language dictionary is allowed in side the examination hall.
Dept. of Complex System Science	Using dictionary from English to Japanese or to applicant's native languages, or from English to English is permitted. (For questions on translation from Japanese to English write ruby for Kanji's.)	

Note: Electronic dictionaries are not allowed.

11. Other Points of Note

- (1) If you have any questions about admissions to our Graduate School, such as application qualifications or documents and selection process, please inquire in advance at the office below.
- (2) For details of research activities of professors, visit our website below.
<http://www.is.nagoya-u.ac.jp>
- (3) Since Nagoya University restricts vehicle entry in the campus, use public transportation when visiting the University for Examinations.
- (4) Among unsuccessful applicants, those who desire so may learn the results of the examinations by subject.
Request should be made between : February 22(Mon.) and March 3 (Wed.), 2010, from 10:00 to 16:00 hours.
(Except for Saturdays, Sundays and Holidays)
Applications : Use the form for "Request for Entrance Examination Results" prescribed by our Graduate School
- (5) We will use personal information such as address, name, birth date, etc. only for admission selection, announcement of admissions, entrance procedures and related matters. We will strictly control personal information and will not use it for any purpose without prior written permission.

※ Notices in case of unforeseen Circumstances

Department's website <http://www.is.nagoya-u.ac.jp> will be updated for changes in the selection items or change in the examination schedule due to natural disaster or infectious disease.

Please make sure to check it before applying and before appearing for the exam.

Academic & Students Affairs Section
Graduate School of Information Science, Nagoya University
Furo-cho, Chikusa-ku, Nagoya City, Aichi Prefecture
464-8601

Tel. +81-52-789-4721/4722 Fax: +81-52-789-4800

<http://www.is.nagoya-u.ac.jp/>
E-mail: admission@is.nagoya-u.ac.jp

Candidates Applying under the Qualifications for Application (8)

1. Candidates Applying under the Qualifications for Application (8)

Persons who have completed or will complete more than 3 years of university by March 31, 2011 or those who have completed 15 years of education in an educational system in a foreign country or enrolled in a foreign university in Japan, which is approved by that foreign country's school education system (the applicants must be recognized to have completed 15 years in the education system), and those who have qualifications approved by the Ministry of Education, Culture, Sports, Science and Technology, Japan and who have also been recognized by our Graduate School as having excellent results in the required credits.

2. Application for Certificate of Approval as Eligible Applicant

2.1 Application documents

Applicants under the Qualifications for Application (8) must either submit or mail the following documents no later than 16:00, December 15(Wed.), 2010 to the Office of Student Affairs, Graduate School of Information Science, Nagoya University. The set of documents, if mailed, should have "Application for Certificate of Approval as Eligible Applicant." written in red ink on the envelope, and be sent by registered mail.

(1) Application Form for the application under Requirement (8)

Note: Applicants must receive, fill out and sign the form prescribed by the Graduate School

(2) Bibliography

Note: Applicants must receive, fill out and sign the form prescribed by the Graduate School

(3) Official transcript of academic records (issued by applicant's most recently enrolled university, until the first term of the third grade)

(4) Document of recommendation by the applicant's academic advisor at his/her most recently enrolled university (form not specified, written in Japanese or English)

2.2 Notification of the results

Applicants will be notified of the results by three days before the beginning date of the Application Period.

3. Examinations and Application documents

3.1 First examination

Application documents: Persons who have been certified as eligible applicants in the examination of qualifications above must submit the documents specified in 4. Application Documents for the application, except (4) Personal History, (8) Certificate for graduation and (9) Official transcript of academic records.

Passing conditions: Acquisition of truly excellent score in the ordinary entrance examination for the graduate school using the same questions and procedure as ordinary students in the written and viva voce.

3.2 Second examination

Application documents: Persons who have passed the first examination should submit the official transcript of academic records for the third grade by March 5, 2010.

Passing conditions: The following two conditions must be satisfied. Entrance will not be approved if persons who passed the first examination do not satisfy the following conditions.

(1) Having earned a minimum of three-fourths of the required credits for a bachelor's degree by the end of his/her third year.

(2) Highest ranked grades (i.e. having earned 80 points or more out of 100) in a minimum of 70 percent of subjects listed on his/her grade transcript (excluding elective subjects and subjects graded only by pass or fail from the denominator).

Nagoya University Graduate School of Information Science

● Basic Philosophy

Along with the spread of the information society, “Information” has itself become a vital part of our current lives ranking alongside materialistic things and energy as important elements that make up our human society. The Graduate School of Information Science will treat “Information” as a study approached from the diverse perspectives of engineering, natural science, computer science, human science, social science, cognitive science and life science with the aim of creating an entirely new field that integrates existing studies. The Graduate School has the educational goal of training researchers, high-level specialist engineering professionals and instructors needed in our information society. A yet further and deeper educational goal is the fostering of individuals having a deep core of academic knowledge and top-ranking capabilities needed for holding their own in an occupation requiring a sophisticated level of expertise acquired by education and research into both the theoretical and applied aspects of our information society, as well as able to contribute to a richer culture. The basic policy of the Graduate School is not only developing human talent capable of carrying out cutting edge research on the frontiers of information science, while having a sense of societal ethics through an understanding the interaction of society and culture; but also to engage in systematic instructional and research efforts that incorporate diverse new efforts and approaches.

● Education

It is expected that “information” studies will continue to develop in parallel with various other academic fields it concerns. For this reason, we accept students from many majors and backgrounds. This is because the goal is to include a wide range of students in the work team from basic to applied information sciences. Our educational program takes place according to the following policy.

1. Systematic education to broadly learn about information.
2. Education to acquire skills to identify and clarify the effects of information in various sciences.
3. Education on technological, engineering and information ethics, with consideration to how it applies within the scope of social life.
4. Education to acquire skills to understand and analyze social demands.
5. Education to develop human resources with the potential of good communication and expression skills.
6. Education to acquire practical knowledge on how to actually operate an information system.

As it is apparent, this program not only focuses on advanced studies and research on information science. Instead, it also incorporates social and cultural aspects of life, to develop human talent capable of understanding sociocultural needs with insight on social ethics. The curriculum is original and reflects these policies. An example would be the multi-supervisory system for each student, so students can acquire a wide perspective of their needs. It is also mandatory for students to take courses from other departments to earn credits for this course. Students also have access to special lectures on the most advanced, recent topics by part-time lecturers. There are also research internship programs with enterprises for students to experience the entire flow of research and development. The Graduate School of Information Science is also promoting new educational styles such as “OJL (On the Job Learning) Centered Education for Leading Information Technology Professionals”.

● Admission Policy

We welcome students who have a strong will and the necessary academic abilities to understand the influence of information science on science and society, to investigate their theories and technical foundations and to try to apply them in practice

● Degree

In the first stage of the doctorate course in our Graduate School, those who have completed requisite studies will be awarded the degree Master of Information Science. However, under certain circumstances, Master of Engineering or Master of Arts could also be awarded.

● Outline of Departments

Our Graduate School comprises the Department of Computer Science and Mathematical Informatics, Department of Information Engineering, Department of Media Science, Department of Complex Systems Science and Department of Systems and Social Informatics. In regard to the names and contacts of professors and researchers in respective departments, please refer to <http://www.is.nagoya-u.ac.jp/>

1) Department of Computer Science and Mathematical Informatics

Our Department conducts study and research in the basic domain of Computer Science including design, analysis and efficiency in information processing, as well as in the domain of Mathematical Informatics, which aims to apply information-related domains through construction and analysis of mathematical models of various phenomena. The nucleus of our Department consists of the basic domain of Computer Science including Algorithm Theory, Computation Theory, Logical representation of Knowledge, Mathematical Science related to Information Science especially applications to study of algebra and its application to coding theory and cryptography, mathematical logic and computation theory, quantum computing theory, construction of mathematical models and research of numerical analysis, and the domain of probability analysis and its application to information theory. In brief, in our Department, selected scholars are nurtured as highly specialized engineers and researchers in Basic Information Science.

2) Department of Information Engineering

In this department, we study and research optimal hardware and software for user-friendly and secure information systems by using information engineering methodology. We concern ourselves with the design and development of such information engineering systems.

Furthermore, based upon the experience of study and research in our Department of Information Engineering, formerly in the Faculty of Engineering, which accommodating the remarkable development of semiconductor integrated circuit technology and information communication technology, we aim to create further developments in information engineering.

Through the development of semiconductor integrated circuit technology, compact size information systems and integrated systems are embedded in machinery such as home electrical appliances and automobiles. Such information processing machinery is, in turn, connected to a mega-sized information system, and can be used in the mobile environment. As a result the software architecture which underpins the information system being constructed becomes larger and more complex.

In this department, by providing education and study of principles and technology, which can be applied to the design and construction of information systems for the next generation, we hope to nurture specialists who will be able to take leading roles as highly advanced information engineers and scientists.

3) Department of Media Science

Information plays a major role in various human activities in industry, economy, society, education, art, medicine/social welfare, and the home. In such an information-based society, information needs to be produced and expressed swiftly with precision.

In this Department, our purpose is to study and research the basics of media science, the creation of intelligent machinery which process and express media, and to study ways to clarify the recognition function of human beings that are indispensable in developing a functional information society, and eventually hope to nurture competent media scientists and media engineers.

4) Complex Systems Science

Complex systems in nature and society comprise the network of many and varied elements such as molecules, neurons, agents which can communicate, convert and accumulate information, and which can therefore be understood as a distributive information system. A main feature of such complex systems is to generate dynamically and autonomously an order structure and function, which cannot be expected from the basic component's features. Complex systems science, by deeming self-organization process of such order and function as information processing, aims to acquire a universal viewpoint. The objective is to investigate various natural and artificial systems and through synthesizing theories, experiments and computation methods, we will attempt to clarify the principle of universal information processing, which is hidden in varied objects.

In this course, we will study the development of innovative computation methodologies to analyze complex systems without using established reductionist methodology, but we will develop constructive method by "understanding by creating" model systems. By opening up distributive methodology which designs information systems based on self-organization of distributed elements, we hope to nurture engineers and scientists who are able to initiate new ideas

through using organization theory thinking and distributive thinking.

5) Department of Systems and Social Informatics

In this Department, the social environment in which development of information technology enhances an information-intensive society, our research takes the viewpoint of physical matter/phenomena of the real world and fusion of logical objectives/processes. The study will be focused on environment, organization, and function which are cooperatively and complementarily fusion-capable and which are organized by the real world and virtual world that is superior for human society. Paradigm or model that fosters, creates and educates humans as well as that which is related to the construction of activity space supported by human wisdom and creative action is already established. Therefore, we would like to explore construction and architecture of a social system that is knowledge-dependent through the use of information technology, and for another, we would like to evaluate and consider the various problems that are generated in the social environment and social organization through the development of information technology. This will lead to research into the human role and organization of human society in an integrated space between the real world and virtual world.

In this course, from the standpoint of nurturing human resources that can meet the needs of the information age, we would like to raise for the awareness of the importance of information processing education, information technology development/application, functional design/development of social information systems, databases for social information environment, and development/construction of a user interface. Thus, we aim to educate competent personnel who can actively support and develop the information society.