Student Handbook 2016

学生ハンドブック

履修案内・キャンパスライフ・諸規則

情報科学研究科

Graduate School of Information Science

奈良先端科学技術大学院大学
Nara Institute of Science and Technology

平成28年度　カレンダー

4月　2016 平成28年

日	月	火	水	木	金	土
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5月　2016 平成28年

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6月　2016 平成28年

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7月　2016 平成28年

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8月　2016 平成28年

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9月　2016 平成28年

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10月　2016 平成28年

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11月　2016 平成28年

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12月　2016 平成28年

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1月　2017 平成29年

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2月　2017 平成29年

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3月　2017 平成29年

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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Index

I Educational policies of the Nara Institute of Science and Technology

1 Educational policies of the Nara Institute of Science and Technology

Objectives

As a university composed solely of graduate schools, NAIST promotes cutting edge research and offers a sophisticated outcome-based education for each student so as to promote advances in science and technology and in society as a whole.

Educational mission

NAIST was founded in October 1991 as a graduate university which nurtures individuals who will contribute to the development of advanced science and technology. Research and education at NAIST cover the three core areas: Information Science, Biological Sciences and Materials Science.

In order to promote a suitable standard of living for people throughout the world in the 21st century, and indeed to secure our very survival, the coming generation of leading researchers must possess the highest scientific and technical competence, along with a clear grounding in professional ethics. At NAIST, we aim to cultivate such researchers and educators.

Therefore, in addition to the areas of Information Science, Biological Sciences and Materials Science, we actively encourage interdisciplinary research and provide educational training in the principles of ethics and intellectual property.

Objectives for each individual student

Education and research in NAIST Master's Courses cultivate sophisticated expertise and personal initiative to support society and the economy. The Doctoral Courses are designed to nurture in researchers and engineers a drive to seek new frontiers in science and technology and to take on leading roles internationally.

Educational policy

In addition to a specialized education, a wide-ranging curriculum cultivates ethical thinking, vision, theoretical thinking, comprehensive judgment and sharpened writing skills.

A coordinated educational program is offered by the three Graduate Schools to promote interdisciplinary research and cooperative programs are offered with centers of education and research institutions abroad.

The quality of education is maintained through external evaluations, student-evaluations, improved research environments, and economic assistance for competent students.

Nara Institute of Science and Technology
Admission Policy

【Prospective Students】

NAIST welcomes applications from highly motivated individuals seeking a world-class, inter-disciplinary graduate education based on information, biological, or materials sciences. Promising candidates are welcomed regardless of their nationality or their research background during undergraduate studies. The university also welcomes scientists, engineers and others currently engaged in researches who demonstrate a unique enthusiasm for scientific pursuit.

○Graduate School of Information Science

The Graduate School of Information Science seeks people who are able to think logically and articulate their thoughts, and who seek an ability to respond flexibly to change in the science and technology of information and communications.

1. Applicants to the master's courses must demonstrate a strong curiosity and a willingness to take on entirely new challenges.
2. Applicants to the doctoral courses must demonstrate the potential to identify problems in specialized fields and approach them with practical solutions.

○Graduate School of Biological Sciences

The Graduate School of Biological Sciences seeks the following types of students:

1. Those with enthusiasm and drive for discovering the basic principles underlying life phenomena and biotic diversity at the molecular and cellular levels.
2. Those with a keen interest in applying their expertise in biological sciences toward solving society's problems while working in one of the many fields of science and technology.

○Graduate School of Materials Science

The Graduate School of Materials Science seeks the following type of students:

1. Those who are highly motivated to conduct creative research in materials science or interdisciplinary scientific pursuit.
2. Those with a keen interest in technological innovation related to social problems and the needs of industry.

【Admission Policy】

Qualified candidates are evaluated based primarily on their potential through interview. In addition, NAIST utilizes a variety of measures in the admission process, including entrance examinations based on recommendation.

Nara Institute of Science and Technology

Diploma Conferment Policy (Diploma Policy)

Nara Institute of Science and Technology (NAIST), a national graduate university without undergraduate departments, promotes cutting-edge research, offers advanced education based on research accomplishments, trains human resources, and thereby contributes to the progress of science and technology and social development. To this end, NAIST defines its diploma policy as follows.

Master's course

Students who receive a master's degree from NAIST must have attained (i) a broad perspective that is necessary for contributing to society and the economy, (ii) knowledge in specialized fields, (iii) research techniques in their majors, and (iv) capabilities that are required for professional occupations such as researchers and engineers. A master's degree (engineering, physical science, or bioscience) shall be conferred on individuals who have acquired the following knowledge and abilities:

1. Extensive knowledge related to information science (in the Graduate School of Information Science), bioscience (in the Graduate School of Biological Sciences) or materials science (in the Graduate School of Materials Science), and advanced knowledge in specialized fields
2. The ability to undertake research and development processes
3. Presentation and communication skills

Doctoral course

Students who earn a doctoral degree from NAIST must have (i) the ability to conduct research as independent researchers or to engage in other professional activities, (ii) extensive knowledge as the basis of such ability, and (iii) the ability to play leading roles in the international community. A doctoral degree (engineering, physical science, or bioscience) shall be conferred on individuals who have acquired the following knowledge and abilities:

1. Extensive and profound knowledge related to information science (in the Graduate School of Information Science), biosciences (in the Graduate School of Biological Sciences), or materials science (in the Graduate School of Materials Science), and advanced knowledge in specialized fields required of highly creative researchers
2. The ability to identify and solve problems, and to plan and promote research
3. Presentation skills
4. An international mindset (including English proficiency) and communication skills

Nara Institute of Science and Technology

Curriculum Development and Implementation Policy (Curriculum Policy)

Master's course

This systematic curriculum for specialized education is designed to train human resources who will be engaged in the research, utilization, and/or popularization of advanced science and technology at education and research institutions, companies, etc. in Japan and abroad. The curriculum facilitates students develop the required ethical awareness, as well as a broad perspective, logical thinking abilities, and excellent linguistic skills.

Doctoral course

In addition to the policy for the master's course, this curriculum facilitates students developing advanced research abilities and an international mindset, in order to train ambitious human resources who are committed to science and technology and will play leading roles in the international community.

○Graduate School of Information Science

Master's course

The educational policy of the master's course is as follows:

1. To enable students to acquire extensive knowledge about information science and advanced knowledge in specialized fields
2. To accommodate students from various fields with appropriate curriculum
3. To facilitate the development of broad student perspectives, without focusing solely on specialized fields
4. To foster the attainment of English proficiency required of researchers
5. To facilitate student development of presentation and communication skills
6. To cultivate in students the ability to identify and solve problems in specialized fields

Doctoral course

The educational policy of the doctoral course is as follows:

1. To facilitate student acquisition of profound knowledge in specialized fields through discussion and lectures
2. To facilitate the development of student initiative-taking abilities in planning and implementing research projects
3. To facilitate student development in presentation and communication skills required of international scientists

4. To facilitate student development of a broad, far-reaching perspective, without focusing solely on specialized fields
5. To facilitate student development of the ability to tackle unknown problems

○Graduate School of Biological Sciences

Master's course

The educational policy of the master's course is as follows:

Bio-Expert course

1. To develop curricula that facilitate student acquisition of extensive knowledge related to bioscience
2. To facilitate student development of research capabilities as the foundation of bioscience
3. To provide education toward improving English proficiency in science
4. To employ small-group classes to improve presentation and communication skills
5. To facilitate student development of (i) the ability to consider issues and ideal models of science and technology in industry and society and (ii) ethical ideals

Frontier Bio course

1. To develop curricula to foster student acquisition of extensive and profound knowledge related to bioscience
2. To facilitate student acquisition of research capabilities to take full advantage of the latest equipment and technologies
3. To provide education toward improving English proficiency in science
4. To employ small-group classes to help improve presentation and communication skills
5. To facilitate student development of (i) the ability to consider issues and ideal models of science and technology in research activities and (ii) ethical ideals

Doctoral course

The educational policy of the doctoral course is as follows:

1. To facilitate student acquisition of more profound, extensive, and advanced expertise related to bioscience
2. To facilitate student development of investigative abilities to identify problems that should be solved
3. To facilitate student development of thinking and logical abilities so that they can propose solutions to problems
4. To facilitate student acquisition of advanced research abilities so that they can implement measures they propose

5. To facilitate student development of communication skills to exchange useful information and have discussions with other researchers in both Japanese and English
6. To facilitate student improvement of presentation skills so they can promote their accomplishments

○ Graduate School of Materials Science

Master's course

The educational policy of the master's course is as follows:

1. To develop curricula that facilitate student acquisition of extensive knowledge and expertise related to materials science
2. To facilitate student acquisition of research and development abilities as the foundation of materials science
3. To provide small-group education toward improving English proficiency
4. To offer education to facilitate student improvement of presentation and communication skills
5. To offer an extensive range of general subjects to raise student awareness of social developments

Doctoral course

The educational policy of the doctoral course is as follows:

1. To facilitate student development of advanced research abilities and acquire extensive, profound, and advanced knowledge related to materials science through advanced research activities and lectures related to materials science
2. To offer education that enables students to experience discussions from various aspects
3. To offer education that underscores the importance of presenting research accomplishments
4. To offer education that fosters students' international mindset (including English proficiency)
5. To develop student abilities to take initiative in planning and managing research projects

February 21, 2008

Code of Conduct for Research Activities at NAIST

"Research activities" refers to actions that generate new findings and construction of systems of knowledge based on reflections, thinking, and ideas while continually using facts and data obtained by means of surveys, observations, experiments and other activities as raw material, building on the results of studies carried out by previous researchers.

The fruits of such activities form the building blocks for the common intellectual assets of humanity, underpinning human happiness as well as economic and social development.

Such research activities have as their premise the integrity of researchers toward their research activities. Dishonest behavior, including the fabrication or falsification of data or results, plagiarism of the results of others' work, multiple publication of the same results, and inappropriate authorship whereby the authors of a paper are not attributed correctly, is contrary to the basic character of research activities. Such actions are unacceptable under any circumstances, and will be dealt with severely.

Given this fundamental awareness of research activities, NAIST has set out the following Code of Conduct outlining the behavior expected of all those involved in research activities at the university (hereafter "researchers") during the performance of research.

1. Responsibilities of Researchers

Researchers shall be responsible for guaranteeing the quality of the specialist knowledge and techniques they themselves generate, and shall also be responsible for using their specialist knowledge, techniques, and experience for social safety and well-being, and for environmental preservation.

2. Actions of Researchers

Researchers shall act with integrity on the basis of correct beliefs, constantly reviewing their attitude toward and approach to research in the awareness that the autonomy of science is built on the trust and mandate of society. They shall both make the utmost efforts to demonstrate the accuracy and appropriateness of the knowledge generated by their research in a scientific and objective manner, and participate actively in the mutual evaluation of researchers within the scientific community, particularly in their own fields of specialization.

3. Self-Improvement

Researchers shall endeavor to maintain and improve their own specialist knowledge, abilities, and skills, and shall also strive unremittingly to understand the relationships of science and technology with society and the natural environment from a broad perspective.

4. Explanation and Disclosure

Researchers shall proactively disclose and explain the significance and role of the research in which they are involved, assessing the potential effect of this research on humanity, society, and the environment as well as any changes it may cause, and shall publish the results in a neutral and objective manner, while striving to build up a constructive dialogue with society.

5. Research Activities

Researchers shall act with integrity and in accordance with the spirit of this Code of Conduct during the process of making proposals, planning, submitting applications, carrying out research, reporting, and conducting other activities connected with their own research. They shall be scrupulous with respect to the recording and storage of research and survey data and strictly impartial treatment, without engaging in dishonest behavior such as fabrication, falsification, or plagiarism, nor shall they be complicit in such behavior.

6. Improvement of Research Environment

Researchers shall be aware that the establishment and maintenance of a fair research environment that enables the implementation of responsible research and the prevention of dishonest behavior is also an important obligation, and shall be actively engaged in improving the quality of the research environment of both the scientific community and the organization to which they belong. They shall also strive to obtain the understanding and cooperation of society in order to achieve this.

7. Appropriate Use of Research Funds

When using research funds, researchers shall comply with all applicable legislation, university regulations and other rules, and conditions, rules for use, and other stipulations set out for all types of externally funded research.

8. Concern for Research Subjects, the Environment, Safety, and Related Issues, and Respect for Bioethics

Researchers shall respect the persons and human rights of those who cooperate in their research, and shall take their well-being into account. When dealing with materials that could have an adverse effect on the environment or safety during the implementation of research (radiation, radioactive isotopes, genetically modified organisms, nuclear fuel material, non-native species, poisonous materials, environmental pollutants, etc.), they shall comply with all applicable legislation, university regulations, guidelines and other stipulations issued by academic societies and other bodies concerned, and shall have the greatest possible respect for bioethics in research on human or animal subjects.

9. Interpersonal Relationships

Researchers shall both evaluate others' results appropriately and listen humbly to criticism of their own research, exchanging opinions with an attitude of sincerity. They shall comply with the obligation of confidentiality concerning the intellectual property rights of others. In particular, they must pay strict attention to compliance with the obligation of confidentiality concerning information obtained during the review process for papers or research funds. They shall also endeavor to protect the personal information of others obtained during the process of research, and take appropriate measures for its handling.

10. Elimination of Discrimination and Harassment

Researchers shall not discriminate against any individual on the basis of his or her race, gender, rank, ideology, religion, or for any other reason, but shall treat each person fairly while respecting the freedom and person of the individual. They shall not use their status or authority to disadvantage any person under their instruction, guidance, or similar circumstances in either word or deed.

11. Conflicts of Interest

Researchers shall pay careful attention to any conflict of interest that may arise between an individual and his or her own institution or another organization in the course of their research, review, evaluation, judgment, or other undertaking, and shall deal with it appropriately while giving due consideration to its public nature. Researchers shall also comply with the NAIST Conflict of Interest Policy and related policies.

II Concept of the Graduate School of Information Science

2 Concept of the Graduate School of Information Science

Objectives

The Graduate School of Information Science aims to produce researchers who will lead research and development to further support today's information society and engineers with advanced expertise through the promotion of advanced research on information science and the implementation of systematic education programs based upon this diverse research in fields including computers and information network technology, computer and human interaction and media technology, various system technology to freely command computers, robots, etc. and bioinformatics technology for unlocking the phenomena of life and biological functions.

III Policies for Education and Research Guidance at the Graduate School of Information Science

3. Policies for Education and Research Guidance at the Graduate School of Information Science

The creation of useful information and its safe handling are becoming more important in today's society. In response to this societal trend, the Graduate School of Information Science promotes high-level foundational research in information science while carrying out systematic training in a wide range of areas of information science from information processing technologies for supporting sense and judgment to technologies for building massive information systems, technologies for building and managing secure information networks, and broad integrated research on information science and bioscience. Through this research, the Graduate School of Information Science cultivates students' potential to become leaders of future research and development as well as expert engineers. The School is also prepared to design and implement practical training programs to provide opportunities for students to develop skills that are useful for innovation and problem solving in actual situations.

Master's Program

Educational Goals

Information science affects social activities based on people's thinking and learning. The Graduate School of Information Science is composed not only of graduates of information science departments but of people from diverse backgrounds. Students in the master's program (engineering or science) develop broad perspectives and robust techniques based on well-prepared curriculums and through research work with people from diverse backgrounds.

Students will be able to seek different career paths including pursuing further research as doctoral students, engaging in industrial or social activities at a company, or starting a business which applies innovative ideas to society. Regardless of the path, it is essential for students to master extensive knowledge about information science and advanced specialized knowledge, improve presentation and communication skills, improve English ability to succeed internationally, and cultivate proper ethical values. The Graduate School of Information Science prepares students to respond to societal changes in a flexible manner and to succeed based on these skills and capabilities.

Instruction Plans and Policies

1. A Flexible Curriculum for Course Selection according to Diverse Backgrounds and Academic Desires

Information science is the foundation of various fields and information science technologies are used in different scenarios. Competition is fierce in the field of advanced technologies and its impact on

society is significant.

Our curriculum covers a broad range of subjects in a systematic way from subjects that serve as a lasting foundation to specialized subjects and advanced or interdisciplinary subjects. Students can select subjects based on the fields that they are categorized in, including “Computer Science,” “Media Informatics,” and “Applied Informatics.” Some of the human resource development programs introduced in the beginning of this chapter are open to general students. Details will be provided separately.

Students who have not studied information science can take basic computer science and mathematics courses to improve logical thinking so that they can be smoothly integrated into the study and research. Basic subjects in mathematics and computer science related subjects have expanded greatly since 2013 so that all students, including those with an information science background, can attain the basic knowledge required for specialized courses and research projects efficiently.

Advanced field subjects are taught by affiliated lab teachers or corporate development professionals. Interdisciplinary field subjects are taught by instructors from other universities or by law firm professionals. Our aim is to deepen knowledge about actual societal problems and technological challenges.

2. Lab Placement

Many students join the Graduate School with great aspirations and awareness of the challenges in their research fields. Students are placed in labs two weeks after enrollment, based on their preference, following a period of introduction to and observation of affiliated labs and other labs. Capacity at each lab is not decided based on a quota, but on students’ wishes. Thus, most of the students are placed in the lab they wish to join.

If individual placement turns out to be unsuitable due to a change of a student’s preference or reorganization of the lab content, a change of labs can be approved as long as the situation permits. It is important to create an environment where students take initiative and have a great interest in their research work.

3. Discussion and Presentation at a Seminar

Students enhance communication and presentation skills while gaining broader knowledge about information science and exploring issues during Seminars I and II. In Seminar I, students hear an introduction and learn about technological trends in advanced research from leading researchers and engineers from Japan or abroad and learn to take initiative in asking questions and stating opinions. In Seminar II, students report on their research plan and the progress of their master’s thesis and receive feedback from a supervisor and peers. This is an opportunity for peers to share questions and opinions

and encourages friendly competition among them, which gives the students suggestions to polish their master's thesis and prepare for the final thesis defense. It also gives students confidence in their presentation skills at conferences.

4. Project Practice

In the Project Practice course, students engage in practical work or experiments on problems and issues that cannot be addressed in a classroom environment. Students are encouraged to reinforce their ability to examine problems identified in actual development and design models for practical application. They will also engage in problem-solving on site as an intern at other research institutions or companies through research and development on a given theme. Through these experiments and practical training, students learn to apply knowledge gained in the classroom environment to actual scenarios and identify what they still need to learn. Summarizing the results of their practical training in a report helps students recognize the importance of identifying outcomes and challenges.

5. Research Work for a Master's Thesis

Graduate school education has two pillars, solid classroom learning and proactive engagement in research. The latter can be described as research work for a master's thesis. Students choose either a "Research Thesis" or "Theme Research" for their research work for a master's thesis. For the Research Thesis, students are expected to engage in research on new issues and come up with creative solutions. The results will be summarized in a thesis format. The creativity, usefulness, and applicability of the solution are the keys for evaluation. For the Theme Research, students research a specific issue or research field, study technological trends, or engage in product development and write a report on it. The points evaluated will be whether there is a systematic approach to an agenda and a solution, as well as a future vision.

Students are supervised by multiple instructors including their primary and secondary supervisors and other teachers. Students can seek advice as necessary and receive specific opinions and advice from these instructors on their research process and issues in the preliminary presentation during Seminar II.

6. Reinforcing English Language Education

Whether students desire to be researchers or engineers at a company, English ability is essential for them to succeed internationally in the information science domain. The Graduate School of Information Science offers "Skills for English Presentation I and II," "Methods of English Communication I and II," and "Advanced Scientific Writing" to help students build communication and expression capabilities in English. Further advanced subjects include "Project Management for

Research," "Literature Search," and "Digital Media." In addition, TOEIC tests are given on campus twice a year. While the TOEIC is not required, students are encouraged to take these English courses or TOEIC tests as English ability is important. It is important for students to take English courses appropriate to their fluency level to improve their ability. ALC Net Academy 2, which is a network-based system for learning English, helps improve practical English skills.

Seminar I will be taught by as many foreign researchers as possible so that students have more opportunities to hear English in action.

In 2011, the International Course was established and 23 specialized courses have been offered in English since then. Now, the number of credits required for completing a master's program can be obtained by just taking courses in English.

Doctoral Program

Educational Goals

Students cultivate a broad and long-term perspective and deeper knowledge in their fields by pursuing independent research work during the doctoral program. This requires the ability to identify issues that need to be addressed or improved in the academic or social arenas, to design research plans to address them, and to come up with solutions or ideas for improvements. The ability to provide answers through such solutions and ideas and evaluate them is also part of the desired ability. After completing the program, students are expected to engage in research on unknown issues or advanced engineering at a university or corporate research institution, or in education to provide instruction to their successors.

The information science fields are going through rapid progress and constant change. Now, students are required to develop universal approaches that are not affected by these changes (universality) or flexible approaches that can be adapted to the changes (flexibility), reliable solutions (reliability), and criteria that guarantee these values. The doctoral program aims to equip students with this capability to help them succeed internationally.

Instruction Plans and Policies

1. Research Work for the Doctoral Dissertation

The primary objective of the doctoral program is to conduct research work for the doctoral dissertation. Students identify issues, design research plans, propose solutions based on creative research work, and develop or apply solutions. It is also essential to examine related research work, evaluate their proposal objectively, and elucidate remaining issues. In this process, students receive relevant instructions and advice from their supervisors. Research results will be published in an academic journal or at an international conference.

2. Interim Presentation

Students give a presentation on their research progress and results, as well as their future research plan, for their doctoral dissertation. Multiple instructors support the effective development of their research by asking questions and providing opinions and advice. Students will be able to reflect on their research by answering these questions properly.

3. Working as TAs and RAs

Teaching assistants (TAs) assist with classes and provide research guidance for the master's program. By working as a TA, a Doctoral student will be able to identify new issues during classes or research work and develop capabilities as a future educator. Research assistants (RAs) assist in the research work of their supervisors. By working as an RA on a related subject in parallel with their research, they are able to expand their perspective and thinking. Either as a TA or an RA, doctoral students will have invaluable opportunities to become independent researchers.

4. English Language Education

Among the English courses offered for the master's program, "Advanced Scientific Writing" and "Skills for English Presentation" are recommended for doctoral students. Students will improve the skills that are required for playing a key role internationally. In addition, the doctoral program helps students improve their English ability by offering an online network-based English Learning System (ALC Net Academy 2) and offline English study materials (CD-ROM). Students are also able to take TOEIC tests twice a year on campus to see their English levels. In Seminar I, students are encouraged to attend lectures by foreign researchers and debate opportunities with foreign researchers who are visiting the graduate school.

5. Course Selection

Doctoral students can take master's program courses freely if they need it for their research work. Relearning the background of their research may help highlight issues in relation to their research topic. Some of the courses are required for doctoral students so that students can improve their academic capacity and knowledge. This depends on the conditions of their doctoral admission. Students will take turns leading lectures and making the discussions more meaningful.

6. Accreditation

Since 2010, students have been able to earn credits for receiving research guidance in the doctoral program and presentations at seminars. This envisions accreditation (double degree, etc.) overseas.

IV Completion Requirements, etc.
for the Graduate School of Information Science

4. Completion requirements for the Graduate School of Information Science

Completion requirements

Master's Course

Completion requirements (for students admitted in academic year 2016)

Subject category	Number of credits to be earned	Number of credits to be earned in the Graduate School of Information Science	
		In the case of research thesis	In the case of thematic research
Basic Subjects	17	6	6
General Subjects	30		
Specialized Subjects in Information Science	83	14＊1	14＊1
Seminar I	1	1	1
Seminar II	1	1	1
Advanced Topics in Information Science Ⅰ＊2	21	1	1
Advanced Topics in Information Science Ⅱ＊2	21	1	1
Advanced Topics in Information ScienceⅢ＊2	21	1	1
Advanced Topics in Information ScienceⅣ＊2	21	1	1
Research Work	4	4	0
Theme Research	4	0	4
Total		30	

＊1 Students should take 8 credits or more from lectures and 2 credits or more from practices out of 14 credits.

＊2 Students should take Advanced Topics in Information Science provided by the laboratories that they belong to.

Doctoral Course

In connection with Article 42 of the Regulations of the Nara Institute of Science and Technology and the Rules on Academic Degrees

1. Completion requirements for the Doctoral Course

Individuals who wish to complete the Doctoral Course and obtain a doctoral degree are required to earn necessary credits in specified courses, receive necessary Research Guidance, submit a doctoral thesis, deliver a presentation at a hearing, and pass the doctoral thesis examination and final examination. If deemed necessary, individuals may be required to earn credits in specified courses in addition to the above courses. Individuals are also required to give an interim report concerning research in the presence of their sub-research advisors 18 months after being admitted to the Doctoral Course.

2. A doctoral thesis should fulfill the requirements below.

(a) The content of research should be characterized by originality, novelty, or availability.

(b) The content that corresponds to the theme of the doctoral thesis has been published or will be published in the near future in the form of a paper subject to screening (a full paper) or a paper presented at an international conference and subject to screening (a paper equivalent to a full paper).

3. Conditions to award a doctoral degree

A doctoral degree is awarded to individuals who are recognized to be fully capable of continuing research and development activities as independent researchers or engineers based on the doctoral thesis submitted to the thesis examination.

Completion requirements (for individuals admitted in academic year 2016)

<table>
<tr><th>Course</th><th>Number of credits earned</th><th>Number of credits required to be earned in the Departments of Information Processing, Information Systems, and Bioinformatics and Genomics</th></tr>
<tr><td>International Communications I (A, B)</td><td>2</td><td rowspan="5">2</td></tr>
<tr><td>International Practice II (A, B, C)</td><td>6</td></tr>
<tr><td>Advanced Interdisciplinary Domain I, II</td><td>2</td></tr>
<tr><td>Advanced Cutting-edge Research Seminar (I–IV)</td><td>4</td></tr>
<tr><td>Advanced Project Management</td><td>2</td></tr>
<tr><td>Research Status Hearing</td><td>2</td><td>2</td></tr>
<tr><td>Doctoral Research (I–VI)</td><td>18</td><td>6</td></tr>
<tr><td colspan="2">Total</td><td>10</td></tr>
</table>

Note: Individuals who are admitted to the Doctoral Course of the Graduate School of Information Science after having been recognized as having academic ability equivalent to or greater than that of a Master's Degree holder, through the qualification screening in the application process, may be required to fulfill additional completion requirements (refer to the next page).

Completion requirements for students who are admitted to the Doctoral Course of the Graduate School of Information Science after having been recognized as having academic ability equivalent to or greater than that of a Master's Degree holder

In connection with Article 42-3 of the Regulations of the Nara Institute of Science and Technology and Article 4-2 of the Completion Rules for the Graduate School of Information Science, the completion requirements applicable to students admitted to the Doctoral Course after having been recognized as having academic ability equivalent to or greater than that of a Master's Degree holder (courses, credits, and registration procedures) shall be as stated below, in addition to the completion requirements in the Doctoral Course (refer to the previous page).

<table>
<tr><th colspan="2">Category</th><th>Completion requirements</th></tr>
<tr><td rowspan="2">Individuals who have graduated from universities (including foreign universities)</td><td>Individuals who have graduated from information-related departments</td><td>Individuals are not required to earn credits other than the completion requirements on the previous page.</td></tr>
<tr><td>Individuals who have graduated from departments other than information-related departments</td><td>In principle, individuals are required to earn six credits or more in courses set forth on the curriculum table of the Graduate School of Information Science (the Master's Course), except for general subjects, in addition to completion requirements on the previous page. However, this excludes Seminars I and II, thesis writing, thematic research, and subjects covered by completion requirements of the Doctoral Course (such as Advanced Cutting-edge Research Seminar, etc.).</td></tr>
<tr><td colspan="2">Individuals who have not graduated from universities (including foreign universities)</td><td>In principle, individuals are required to earn 10 credits or more in courses set forth on the curriculum table of the Graduate School of Information Science (the Master's Course), except for general subjects, in addition to completion requirements on the previous page. However, this excludes Seminars I and II, thesis writing, thematic research, and subjects covered by completion requirements of the Doctoral Course (such as Advanced Cutting-edge Research Seminar, etc.).</td></tr>
</table>

Note: The Faculty Council of the Graduate School of Information Science is responsible for identifying individuals who are required to earn credits to fulfill completion requirements in the table above, in addition to those on the previous page.

Double Degree Doctoral Program
Graduate School of Information Science

The double degree (DD) program of Graduate School of Information Science (NAIST-GSIS) gives a doctoral course student to register for the partner university at the same time to obtain PhD degrees from both of NAIST-GSIS and the partner university through guidance of the professors of the two universities. DD Program has been established with the following two partner universities.

The students participating in the program must conduct their studies at each university for at least one academic year. The students are entitled to a waived screening fee, admission fee and tuition fees at their partner university. Please refer to the following web site for details.

http://www.naist.jp/en/international_students/prospective_students/admission_information/double_degree/index.html

1. The University of Oulu Department of Information Processing Science (Finland)

Nara Institute of Science and Technology Graduate School of Information Science (hereinafter referred to as "our graduate school") and University of Oulu Department of Information Processing Science (hereinafter referred to as "Oulu University") have established the Double Degree Program for the purpose of cultivating doctoral students into researchers that will contribute to future research and development and highly specialized technicians. Students will be trained to become valuable human resources with an international perspective in order to contribute to international academic exchange.

- **Number of Students for Acceptance and Dispatchment**

  Acceptance：Limited

  Dispatchment：Limited

- **Qualifications for Application and Entrance Examination**

(1) Acceptance of Students to our Graduate School

① Qualifications for Applying

Applicants must fulfill one of the Following Conditions:

(1) a Master's student of Oulu University who are accepted into the doctoral program and will have received this degree before entering the doctoral program

(2) an Oulu University doctoral student

② Additional Information

(1) The selection of applicants is, as a rule, based on the examination of written materials. However, an oral examination may be held if deemed necessary.

(2) Entrance to the program is the fall semester of 2016 and the spring semester of 2017

(2) Dispatchment from our Graduate School

①Qualifications for Applying

Applicant must fulfill the Following Conditions:

(1) Applicants must be one of the Following:

(a) a master's student of our graduate school who is accepted into the doctoral program and will have received this degree before entering Oulu University

(b) a doctoral student of our graduate school.

(2) Have the necessary language ability to participate in class and carry out research

②Additional Information

(1) Student selection for the program will be based on the reviewing of application materials and interview results at each school

(2) Entrance to the program is the fall semester of 2016 and the spring semester of 2017

2. Unitec Institute of Technology, Department of Computing (New Zealand)

Nara Institute of Science and Technology Graduate School of Information Science (NAIST) and Unitec Institute of Technology Department of Computing (Unitec) have established the Double Degree Program for the purpose of cultivating doctoral students into researchers that will contribute to future research and development and highly specialized technicians. Students will be trained to become valuable human resources with an international perspective in order to contribute to international academic exchange.

- **Number of Students for Acceptance and Dispatchment**

  Acceptance (Unitec students to join NAIST doctoral program): Limited

  Dispatchment (NAIST students to join Unitec doctoral program): Limited

- **Qualifications for Application and Entrance Examination**

(1) Acceptance

(i) Qualifications for application

Applicants must fulfill all of the following conditions:

(1) Those who have a master's degree or will have a master's degree before enrollment date

(2) Those who are admitted to Unitec doctoral program

(ii) Additional information

(1) The selection of applicants is based on the examination of written materials. However, an oral examination may be held if deemed necessary.

(2) Entrance to the program is the fall semester of 2016 and the spring semester of 2017

(2) Dispatchment

(i) Qualifications for application

Applicants must fulfill all of the following conditions:

(1) Those who have a master's degree or will have a master's degree before the enrollment date

(2) Those who are admitted to NAIST doctoral program or those who are applying for entrance examination for NAIST doctoral course.

(ii) Additional Information

(1) The selection of applicants is based on the examination of written materials and oral examination.

(2) Entrance to the program is the fall semester of 2016 and the spring semester of 2017

Registering for courses

• Registration

1. Procedures

Students are required to develop plans to register for subjects for each semester, based on full consultation with their research instructors. Please note the following when choosing subjects.

(1) For subjects offered by the Graduate School of Information Science, students are required to attend the first or second class of a course and follow the instructions of the faculty members in charge. (It is not required to submit a registration form to the Graduate School Office.)

(2) For subjects offered by the Graduate Schools of Biological Sciences and Materials Science, students are required to submit a registration form to the Graduate School Office.

(3) In principle, it is not allowed to take simultaneously two subjects offered in the same time slot.

(4) If a student is found to have earned credits in subjects that are offered in the same time slot, the student shall be required to choose the credits earned in only one of the subjects. The credits earned in the other subject will be cancelled.

2. About credits earned prior to admission to NAIST

The Faculty Council of this graduate school can give credit for up to 10 credits earned at graduate schools other than NAIST, if deemed educationally beneficial to do so. Students who apply for this procedure are required to apply to the Educational Affairs Section of the Educational Affairs Division with the following documents.

(1) Application form for this purpose (The form is available at the Educational Affairs Division.)

(2) Certificate of credits earned, or certificate of academic record, issued by the graduate school other than NAIST at which credits have been earned

(3) Documents that show in some detail the content of lectures given in subjects to be considered for accreditation by NAIST (a copy of the syllabus, etc.)

* The schedule for application procedures, etc. will be posted on the bulletin board or provided by other means. Please check the information carefully. For more information, please contact the Educational Affairs Section of the Educational Affairs Division.

3. Credit transfer program with other NAIST graduate schools

A credit transfer program is in place between this graduate school and the Graduate Schools of Biological Sciences and Materials Science. Students who want to make use of the credit transfer program should read the instructions below carefully and follow the prescribed procedures. For more information, please contact the Educational Affairs Section of the Educational Affairs Division.

(1) Registration method, etc.

(i) Students who want to use the credit transfer program are required to submit the prescribed registration application form.

(ii) The following types of subjects are available via the credit transfer program.

Graduate school	Subjects
Biological Sciences	General subjects, basic subjects, and special subjects
Materials Science	General subjects, basic subjects, and special subjects

(iii) Students who want to use the credit transfer program are required to select subjects they will take by referring to the syllabus and class schedule in the Student Handbooks issued by the Graduate Schools of Biological Sciences and Materials Science, and obtain approval from their main research instructors and permission from faculty members in charge of the subjects that they want to take.
(iv) Students may be refused permission to take specific subjects due to reasons including lecture room capacity at the Graduate Schools of Biological Sciences and/or Materials Science.
(2) Credit transfer
Up to six credits earned by taking subjects at the Graduate Schools of Biological Sciences and Materials Science may be counted as credits for general subjects in Information Sciences.
(3) Timing of registration application
For more information about the procedures (including the timing of submitting registration application forms and offices to which application forms should be submitted), students will be notified via the bulletin board or by other means at a later date.

4. Credit transfer program with graduate schools of other universities
A credit transfer program is in place between this graduate school and the following graduate schools of other universities:
• Graduate School of Engineering, Osaka University
• Graduate School of Engineering Science, Osaka University
• Graduate School of Humanities and Sciences (Department of Information and Computer Sciences), Nara Women's University
• Cloud-Spiral program (Graduate School of Information Science, Osaka University)
• SecCap program (Graduate School of Information Sciences, Tohoku University, School of Information Science, Japan Advanced Institute of Science and Technology, Graduate School of Media Design, Keio University, Graduate School of Information Security, Institute of Information Security)
Students who want to use the credit transfer program should read the instructions below carefully and follow the prescribed procedures. For more information, please contact the Educational Affairs Section of the Educational Affairs Division.
(1) Registration method, etc.
(i) Students who want to use the credit transfer program are required to submit the prescribed registration application form and a statement of their reasons.
(ii) For the Master's Course, the total number of credits registered shall be a maximum of ten.
(iii) In principle, the scope of registration for subjects shall be lectures only, and shall not cover seminars, practical work, experiments, research, etc.
(iv) Students may be refused permission to take specific subjects due to reasons including lecture room capacity at the graduate school.
(2) Credit transfer
Credits earned at the previous graduate school are counted as credits towards the completion requirements for this graduate school, provided that the Faculty Council of this graduate school recognizes them as such before the student take such subjects.
(3) The period for accepting the registration application form and the statement of reasons
The period for accepting these documents differs depending on the graduate school. Students will be notified via the bulletin board at a later date.
(4) Procedures for submitting a registration application form and a statement of reasons

(i) Registration application forms and the statement of reason forms are available from the Educational Affairs Section of the Educational Affairs Division.
(ii) Students who want to use the credit transfer program are required to select subjects they wish to take by referring to the content of the lectures and the class schedule, etc. at the graduate school; obtain approval from their research instructors (a seal of approval is required); and submit a registration application form and a statement of reasons to the Educational Affairs Section of the Educational Affairs Division.

5. Issuance of academic records

Students can confirm their academic performance by means of academic records which can be obtained from the automatic certificate issuing machine in the entrance lobby of the NAIST Library.

6. Research guidance offered at graduate schools of other universities

Students can receive the necessary research guidance at non-NAIST graduate schools and research institutions, etc. (hereinafter referred to as "non-NAIST graduate schools, etc.") based on consultation with relevant non-NAIST graduate schools, etc., when it is deemed educationally beneficial to do so. Such research guidance is available is for up to one year each for the Master's Course and Doctoral Course, respectively. Permission may be given to extend that duration for the Doctoral Course. Students who want to receive research guidance at non-NAIST graduate schools, etc. are required to consult with their research instructors in advance, and inform the Educational Affairs Section of the Educational Affairs Division at least two months before they would begin to receive guidance.

• Handling of classes when public transport services are suspended, etc.

1. Handling of classes when public transport services are suspended

Classes will be cancelled when the services of the Kintetsu lines (Keihanna, Nara, and Kyoto) and/or Nara Kotsu Bus lines (routes serving Gakken Kita-Ikoma Sta., Gakuenmae Sta., and Takanohara Sta.) are suspended due to a major disaster, accident, etc. The table below shows the handling of classes when public transport services are restored.

2. Handling of classes when a weather warning is issued

Classes will be cancelled when an Emergency Warning and a storm (or snowstorm) warning is issued in Ikoma City, Nara City and the area including those cities. The table below shows the handling of classes when the warning is cancelled.

Status at 7:00 a.m./10:00 a.m.	Handling of classes
Public transport services are restored and the warning is cancelled at or before 7:00 a.m.	Classes are held for the whole day
Public transport services are restored and the warning is cancelled at or before 10:00 a.m.	Classes are held in the afternoon
Public transport services remain suspended and the warning remains in effect after 10:00 a.m.	Classes are cancelled for the whole day

Note: Information on the TV, Internet, etc. is used to check if public transport services are suspended/restored or a warning is issued/cancelled.

Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology

April 1, 2004
Regulation No. 20

Article 1 (Purpose)
These regulations stipulate matters necessary for registration by students of the Graduate School of Information Science in accordance with Article 34 of the Regulations of Nara Institute of Science and Technology (2004 Regulations No.1) ("NAIST Regulations").

Article 2 (Research instructors)
1. Two or more research instructors shall be designated for each student to provide guidance on choosing subjects and preparing a degree thesis, etc. (hereinafter referred to as "research guidance").
2. One of such research instructors, who shall be a professor, shall be designated as the main research instructor.
3. Research instructors may be changed if needed in the course of studying or research guidance.

Article 3 (Research guidance)
The details of research guidance shall be defined for each student.

Article 4 (Subjects and number of credits)
1. The subjects, number of credits, and registration procedures for the Master's Course shall be as shown in Schedule 1.
2. The subjects, number of credits, and registration procedures for the Doctoral Course shall be as shown in Schedule 2.

Article 5 (Registration procedures)
1. Students are required to select subjects they wish to take based on guidance offered by the main research instructor.
2. In principle, it is not allowed to take simultaneously two or more subjects that are offered in the same time slot.

Article 6 (Awarding of credits)
1. Credits shall be awarded by means of an examination or a research report. Credits may be awarded based on an evaluation of day-to-day study activities, instead of such examination.
2. Academic performance based on an examination or a research report shall be evaluated by points (full score: 100 points); 60 points or more is a "pass", and 59 points or less is a "fail". For evaluation purposes, academic performance may be represented as "Excellent," "Good," "Fair," and "Fail" in accordance with the categories below.

80 points or more	Excellent
70–79 points	Good
60–69 points	Fair
59 points or less	Fail

3. In the event that it is difficult to evaluate academic performance based on points as described in the preceding paragraph, "pass" or "fail" may be used instead of such points.
4. The prescribed credits shall be awarded to students whose academic performance is "pass" in accordance with the two preceding paragraphs.
5. Subjects whose credits have been earned cannot be taken again for credit.

Article 7 (Approval of completion of research guidance)
The completion of research guidance (research thesis or thematic research) shall be approved by the main research instructor and reported to the dean of the graduate school.

Article 8 (Theme of the degree thesis)
Students shall be required to report the theme of their degree thesis by a specified date, with the approval of the main research instructor.

Article 9 (Submission of the degree thesis)
1. Students are required to submit a degree thesis by a specified date, with the approval of the main research instructor.
2. A degree thesis can be submitted by students who (i) have earned or who are expected to earn the credits necessary for completion of the course and (ii) have completed the necessary research according to guidance offered by research instructors.

Article 10 (Disqualification of credits for students who have been expelled due to unpaid tuition)
Credits accrued during the period of unpaid tuition will be disqualified when the student has been expelled from school, pursuant to Article 53-2-4 of Regulation.

Article 11 (Miscellaneous provision)
Other matters relating to registration by students shall be stipulated separately.

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2004.
(Transitional measures)
2. For students who were admitted in academic year 2003 or earlier (hereinafter referred to as “enrolled students”), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall remain in effect even after these Regulations come into effect. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2005.
(Transitional measures)
2. For students who were admitted in academic year 2004 or earlier (hereinafter referred to as “enrolled students”), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2006.
(Transitional measures)
2. For students who were admitted in academic year 2005 or earlier (hereinafter referred to as “enrolled students”), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with

former subjects as set forth separately.

(an omission)

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2010.
(Transitional measures)
2. For students who were admitted in academic year 2009 or earlier (hereinafter referred to as "enrolled students"), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2011.
(Transitional measures)
2. For students who were admitted in academic year 2010 or earlier (hereinafter referred to as "enrolled students"), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.
Supplementary provisions

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2012.
(Transitional measures)
2. For students who were admitted in academic year 2011 or earlier (hereinafter referred to as "enrolled students"), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2013.
(Transitional measures)
2. For students who were admitted in academic year 2012 or earlier (hereinafter referred to as "enrolled students"), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2014.
(Transitional measures)
2. For students who were admitted in academic year 2013 or earlier (hereinafter referred to as "enrolled students") with regard to subjects, number of credits, and registration, the former Registration Regulations for

the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision notwithstanding the provisions of appended Schedule 1 and 2. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2015.
(Transitional measures)
2. For students who were admitted in academic year 2014 or earlier (hereinafter referred to as "enrolled students") with regard to subjects, number of credits, and registration, the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision notwithstanding the provisions of appended Schedule 1 and 2. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2016.
(Transitional measures)
2. For students who were admitted in academic year 2015 or earlier (hereinafter referred to as "enrolled students") with regard to subjects, number of credits, and registration, the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision notwithstanding the provisions of appended Schedule 1 and 2. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Schedule 1 (Supplement to Article 4)

Curriculum table of the Graduate School of Information Science

(1) Subjects(Master's Course)

Category	Subject name	Subject Number	Number of credits	Classification	Remarks
Basic Subjects	Computer System	000101	1	○	Common Subjects for All Graduate Schools
	Algorithm	000102	1	○	Common Subjects for All Graduate Schools
	Introduction to Biological Science	000202	1	○	Common Subjects for All Graduate Schools
	Foundation of Materials Science	000301	1	○	Common Subjects for All Graduate Schools
	Information Theory	120001	1	○	
	Introduction to Formal Language Theory	120002	1	○	
	Introductory Programming Course I	120003	1	○	
	Introductory Programming Course II	120004	1	○	
	Principles of Signal Processing	120005	1	○	
	Numerical Methods	120006	1	○	
	Applied Analysis	120007	1	○	
	Fundamental Mathematics for Optimization	120008	1	○	
	Multivariate Analysis	120009	1	○	
	Basic Data Analysis	120010	1	○	
	Introduction to Stochastic Processes	120011	1	○	
	Combinatorics	120012	1	○	
	Algebraic Structures	120013	1	○	
Specialized Subjects in Information Science	Theory of Computation I	130001	1	○	
	Theory of Computation II	130002	1	○	
	Reconfigurable Computing	130003	1	○	
	Advanced Algorithm Design	130004	1	○	
	Distributed Systems and Middleware	130005	1	○	
	Software Design	130006	1	○	
	System Requirement Engineering	130007	1	○	
	Virtual Systems Infrastracture	130008	1	○	
	Software Engineering I	131009	1	○	
	Software Engineering II	132010	1	○	
	Speech Processing	130011	1	○	
	Artificial Intelligence: Searching and Mining	130012	1	○	
	Ambient Intelligence	130013	1	○	
	Natural Language Processing	130014	1	○	
	Computer Vision I	131015	1	○	
	Computer Vision II	132016	1	○	
	Computer Graphics	130017	1	○	
	Virtual Reality	130018	1	○	
	Digital Image Processing	130019	1	○	
	Coding Theory	130020	1	○	
	Information Network I	131021	2	○	
	Information Network II	132022	2	○	
	Wireless Communication Systems	130023	1	○	
	Signal Detection Theory	130024	1	○	
	Network Simulation	130025	1	○	
	Sequential Data Modeling	130026	1	○	
	Human Computer Interaction	130027	1	○	
	Pattern Recognition	130028	1	○	
	Game Theory	130029	1	○	
	Systems Control I	131030	1	○	
	Systems Control II	132031	1	○	
	Robotics I	131032	1	○	
	Robotics II	132033	1	○	
	Mathematical Modeling	130034	1	○	
	Computational Neuroscience	130035	1	○	
	Ubiquitous Information Processing	130036	1	○	
	Bio-Imaging	130037	1	○	
	Systems Biology I	130038	1	○	
	Systems Biology II	130039	1	○	
	Medical Imaging Analysis	130040	1	○	
	Biomedical Media Informatics	130041	1	○	
	Big Data Analytics	130042	1	○	

Specialized Subjects in Information Science	Information Security & Our Society	130043	2	○	
	Data Mining	130044	1	○	
	Mobile Computing	130045	1	○	
	Advanced Cutting-edge Research Seminar Ⅰ	130046	1	○	
	Advanced Cutting-edge Research Seminar Ⅱ	130047	1	○	
	Advanced Cutting-edge Research Seminar Ⅲ	130048	1	○	
	Advanced Cutting-edge Research Seminar Ⅳ	130049	1	○	
	Project Practice Ⅰ	130050	2	○	
	Project Practice Ⅱ	130051	2	○	
	Project Practice Ⅲ	130052	2	○	
	Project Practice Ⅳ	130053	2	○	
	Exercise in Practical Software Development Ⅰ	130054	2	○	
	Exercise in Practical Software Development Ⅱ	130055	2	○	
	Theory of Advanced IT	130056	1	○	
	Studio of Advanced It Ⅰ	130057	2	○	
	Studio of Advanced It Ⅱ	130058	2	○	
	Introduction to Advanced Robot Technology	130059	1	○	
	Advanced Robot Design	130060	2	○	
	Advanced Robot Development Theory Ⅰ	131061	1	○	
	Advanced Robot Development Theory Ⅱ	132062	1	○	
	Lecture of Information Security Management Literacy Ⅰ	130063	1	○	
	Lecture of Information Security Management Literacy Ⅱ	130064	1	○	
	Exercise for Information Security PBL A	130065	1	○	
	Exercise for Information Security PBL B	130066	1	○	
	Exercise for Information Security PBL C	130067	1	○	
	Exercise for Information Security PBL D	130068	1	○	
	Exercise for Information Security PBL E	130069	1	○	
	Exercise for Information Security PBL F	130070	1	○	
	Exercise for Information Security PBL G	130071	1	○	
General Subjects	Commentaries on Science and Technology	000103	1	○	Common Subjects for All Graduate Schools
	Science Communication	000201	1	○	Common Subjects for All Graduate Schools
	Skills for English Presentation Ⅰ	110001	1	○	
	Methods of English Communication Ⅰ	110002	1	○	
	Methods of English Communication Ⅱ	111003	1	○	
	Advanced Scientific Writing	112004	1	○	
	Skills for English Presentation Ⅱ	110005	1	○	
	Project Management for Research	110006	1	○	
	Literature Search	110007	1	○	
	Digital Media	110008	1	○	
	Intercultural Communication	110009	1	○	
	Intellectual Property Rights	110010	1	○	
	Global Entrepreneur Ⅰ	111011	1	○	
	Global Entrepreneur Ⅱ	111012	1	○	
	Global Entrepreneur Ⅲ	112013	1	○	
	Global Entrepreneur Ⅳ	112014	1	○	
	Global Entrepreneur Ⅴ	112015	1	○	
	Philosophy of Science	000104	1	○	Common Subjects for All Graduate Schools
	Technology and Professional Ethics	000105	1	○	Common Subjects for All Graduate Schools
	Information Technology for Environmental Issues	110016	1	○	
	Japanese Culture	000106	2	○	Common Subjects for All Graduate Schools
	Japanese Class for Begginers Ⅰ	000303	2	○	Common Subjects for All Graduate Schools
	Japanese Class for Begginers Ⅱ(1)	000203	1	○	Common Subjects for All Graduate Schools
	Japanese Class for Begginers Ⅱ(2)	000204	1	○	Common Subjects for All Graduate Schools
	Japanese Class for Begginers Ⅲ(1)	-	1	○	Common Subjects for All Graduate Schools
	Japanese Class for Begginers Ⅲ(2)	-	1	○	Common Subjects for All Graduate Schools
	Academic Volunteer Ⅰ	110017	1	○	
	Academic Volunteer Ⅱ	110018	1	○	
Advanced Topics in Information Science	Advanced Computing Architecture Ⅰ	140001	1	□	
	Advanced Computing Architecture Ⅱ	140002	1	□	
	Advanced Computing Architecture Ⅲ	140003	1	□	
	Advanced Computing Architecture Ⅳ	140004	1	□	
	Advanced Dependable System Ⅰ	140005	1	□	
	Advanced Dependable System Ⅱ	140006	1	□	
	Advanced Dependable System Ⅲ	140007	1	□	
	Advanced Dependable System Ⅳ	140008	1	□	
	Advanced Ubiquitous Computing Systems Ⅰ	140009	1	□	
	Advanced Ubiquitous Computing Systems Ⅱ	140010	1	□	

Advanced Topics in Information Science	Advanced Ubiquitous Computing Systems Ⅲ	140011	1	□	
	Advanced Ubiquitous Computing Systems Ⅳ	140012	1	□	
	Advanced Mobile Computing Ⅰ	140013	1	□	
	Advanced Mobile Computing Ⅱ	140014	1	□	
	Advanced Mobile Computing Ⅲ	140015	1	□	
	Advanced Mobile Computing Ⅳ	140016	1	□	
	Advanced Software Engineering Ⅰ	140017	1	□	
	Advanced Software Engineering Ⅱ	140018	1	□	
	Advanced Software Engineering Ⅲ	140019	1	□	
	Advanced Software Engineering Ⅳ	140020	1	□	
	Advanced Software Design and Analysis Ⅰ	140021	1	□	
	Advanced Software Design and Analysis Ⅱ	140022	1	□	
	Advanced Software Design and Analysis Ⅲ	140023	1	□	
	Advanced Software Design and Analysis Ⅳ	140024	1	□	
	Advanced Internet Engineering Ⅰ	140025	1	□	
	Advanced Internet Engineering Ⅱ	140026	1	□	
	Advanced Internet Engineering Ⅲ	140027	1	□	
	Advanced Internet Engineering Ⅳ	140028	1	□	
	Advanced Internet Architecture and Systems Ⅰ	140029	1	□	
	Advanced Internet Architecture and Systems Ⅱ	140030	1	□	
	Advanced Internet Architecture and Systems Ⅲ	140031	1	□	
	Advanced Internet Architecture and Systems Ⅳ	140032	1	□	
	Advanced Computational Linguistics Ⅰ	140033	1	□	
	Advanced Computational Linguistics Ⅱ	140034	1	□	
	Advanced Computational Linguistics Ⅲ	140035	1	□	
	Advanced Computational Linguistics Ⅳ	140036	1	□	
	Advanced Augmented Human Communication Ⅰ	140037	1	□	
	Advanced Augmented Human Communication Ⅱ	140038	1	□	
	Advanced Augmented Human Communication Ⅲ	140039	1	□	
	Advanced Augmented Human Communication Ⅳ	140040	1	□	
	Advanced Network Systems Ⅰ	140041	1	□	
	Advanced Network Systems Ⅱ	140042	1	□	
	Advanced Network Systems Ⅲ	140043	1	□	
	Advanced Network Systems Ⅳ	140044	1	□	
	Advanced Vision and Media Computing Ⅰ	140045	1	□	
	Advanced Vision and Media Computing Ⅱ	140046	1	□	
	Advanced Vision and Media Computing Ⅲ	140047	1	□	
	Advanced Vision and Media Computing Ⅳ	140048	1	□	
	Advanced Interactive Media Design Ⅰ	140049	1	□	
	Advanced Interactive Media Design Ⅱ	140050	1	□	
	Advanced Interactive Media Design Ⅲ	140051	1	□	
	Advanced Interactive Media Design Ⅳ	140052	1	□	
	Advanced Optical Media Interface Ⅰ	140053	1	□	
	Advanced Optical Media Interface Ⅱ	140054	1	□	
	Advanced Optical Media Interface Ⅲ	140055	1	□	
	Advanced Optical Media Interface Ⅳ	140056	1	□	
	Advanced Ambient Intelligence Ⅰ	140057	1	□	
	Advanced Ambient Intelligence Ⅱ	140058	1	□	
	Advanced Ambient Intelligence Ⅲ	140059	1	□	
	Advanced Ambient Intelligence Ⅳ	140060	1	□	
	Advanced Robotics Ⅰ	140061	1	□	
	Advanced Robotics Ⅱ	140062	1	□	
	Advanced Robotics Ⅲ	140063	1	□	
	Advanced Robotics Ⅳ	140064	1	□	
	Advanced Intelligent System Control Ⅰ	140065	1	□	
	Advanced Intelligent System Control Ⅱ	140066	1	□	
	Advanced Intelligent System Control Ⅲ	140067	1	□	
	Advanced Intelligent System Control Ⅳ	140068	1	□	
	Advanced Mathematical Informatics Ⅰ	140069	1	□	
	Advanced Mathematical Informatics Ⅱ	140070	1	□	
	Advanced Mathematical Informatics Ⅲ	140071	1	□	
	Advanced Mathematical Informatics Ⅳ	140072	1	□	
	Advanced Computational Systems Biology Ⅰ	140073	1	□	
	Advanced Computational Systems Biology Ⅱ	140074	1	□	
	Advanced Computational Systems Biology Ⅲ	140075	1	□	
	Advanced Computational Systems Biology Ⅳ	140076	1	□	
	Advanced Large-Scale Systems Management Ⅰ	140077	1	□	

Advanced Topics in Information Science	Advanced Large-Scale Systems Management Ⅱ	140078	1	□	
	Advanced Large-Scale Systems Management Ⅲ	140079	1	□	
	Advanced Large-Scale Systems Management Ⅳ	140080	1	□	
	Advanced Imaging-based Computational Biomedicine Ⅰ	140081	1	□	
	Advanced Imaging-based Computational Biomedicine Ⅱ	140082	1	□	
	Advanced Imaging-based Computational Biomedicine Ⅲ	140083	1	□	
	Advanced Imaging-based Computational Biomedicine Ⅳ	140084	1	□	
	Seminar I	140085	1	◎	
	Seminar II	140086	1	◎	
	Research Work	150001	4	□	
	Theme Research	150002	4	□	
◎, □, and ○ represent required, required-elective, and elective subjects.					

(2) Registration methods

1.Students are required to earn 14 credits or more from specialized subjects in information science (including 8 credits or more from lectures and 2 credits or more from practices), six credits or more from general or basic subjects, 20 credits or more in total. They are also required to take Seminar I (one credit) and Seminar II (one credit), Advanced Topics in Information Science I- IV (one credit each).
Advanced Topics in Information Science I- IV provided by the laboratories that students belong to shall count as credits toward completion.

2. Students are required to do a research thesis (4credits) or thematic research (4credits).

3. In accordance with Article 37 of the NAIST Regulations, up to six credits earned by taking subjects of other NAIST graduate schools may count as credits earned as general subjects toward the completion requirements.

4. For students who graduated from information-related undergraduate departments (e.g. department of information engineering, department of information science, department of computer engineering, department of information system engineering, department of system engineering, department of control engineering) and those who have completed the third academic year, credits earned by taking the following basic subjects shall not count as credits toward completion:Computer Systems, Algorithms, Introductory Programming Course I, Introductory Programming Course II.

5. For students who graduated from biological science-related undergraduate departments and those who completed the third academic year, credits earned by taking Introduction to Biological Science shall not count as credits toward completion.

6. Only for students from abroad,credits earned by taking the following general subjects shall count as credits toward completion:Japanese Class for Begginers Ⅰ,Ⅱ(1),Ⅱ(2),Ⅲ(1),Ⅲ(2).

(3) How to read the subject numbers
Subject numbers consist of 6-digit numbers based on levels, difficulties, and other elements of courses. Please review the following information carefully before you register for courses.

First digit : The first digit in the 6-digit numbers indicates categories of common subjects or subjects offered by each Graduate School:
0XXXXX = Common subjects
1XXXXX = Subjects offered by the Graduate School of Information Science
2XXXXX = Subjects offered by the Graduate School of Biological Sciences
3XXXXX = Subjects offered by the Graduate School of Materials Science

Second digit : The second digit in the 6-digit numbers indicates levels of subjects:
X**0**XXXX = Common subjects［For master's course］
X**1**XXXX = General subjects［For master's course］
X**2**XXXX = Basic subjects［For master's course］
X**3**XXXX = Specialized subjects［For master's course］
X**4**XXXX = Advanced topics (Laboratory Activities) / Seminar［For master's course］
X**5**XXXX = Thesis / Specialized research / Research［For master's course］
X**6**XXXX = Doctoral subjects (Except below doctoral subject)［For doctoral course］
X**7**XXXX = Dissertation / Research［For doctoral course］

Third digit : The third digit in the 6-digit numbers indicates difficulties of subjects:
XX**0**XXX = No category
XX**1**XXX = Basic
XX**2**XXX = Intermediate
XX**3**XXX = Advanced

Fourth, Fifth and Sixth digits : The fourth, fifth and sixth digits in the 6-digit numbers indicate serial numbers in each category indicated by the second digit:
XXX**XXX** = Serial numbers (ranging from 001 to 999) based on levels of subjects categorized by second digit.

Regarding the fourth to sixth digits in the 6-digit numbers of common subjects or subjects offered by other Graduate Schools refer to the following.

i) For common subjects with the first digit of "0", please refer to the following guideline.

Fourth digit : The fourth digit in the 6-digit numbers indicates categories of subjects offered by each Graduate School:
XXX**1**XX = Subjects offered by the Graduate School of Information Science
XXX**2**XX = Subjects offered by the Graduate School of Biological Sciences
XXX**3**XX = Subjects offered by the Graduate School of Materials Science

Fifth and Sixth digits : The fifth and sixth digits in the 6-digit numbers indicate serial numbers assigned by each Graduate School.
XXXX**XX** = Serial numbers (ranging from 01 to 99) assigned by each Graduate School

ii) For subjects offered by other Graduate Schools with the first digit of "2 or 3", please refer to other Graduate Schools guideline.

Attached Schedule 2 (in connection with Article 4)

Curriculum Table for the Graduate School of Information Science

(1) Course name, etc. (Doctoral Course)

Course name	Subject Number	Number of credits	Departments of Information Processing, Information Systems, and Bioinformatics and Genomics		Remarks
			Required/ elective	Number of credits required for completion	
International Communications I A	160001	1	○		Language lectures at NAIST
International Communications I B	160002	1	○		
International Practice II A	160003	2	○		Short-term dispatches (international conferences, etc.), long-term dispatches (corporate internships in Japan, overseas internships, etc.)
International Practice II B	160004	2	○		
International Practice II C	160005	2	○		
Advanced Specific Field Seminar I	160006	1	○	2	Lectures at NAIST
Advanced Specific Field Seminar II	160007	1	○		
Advanced Cutting-edge Research Seminar I	160008	1	○		Doctoral course subjects designated by academic advisors
Advanced Cutting-edge Research Seminar II	160009	1	○		
Advanced Cutting-edge Research Seminar III	160010	1	○		
Advanced Cutting-edge Research Seminar IV	160011	1	○		
Advanced Project Management	160012	2	○		Project management
Research Status Hearing	160013	2	◎	2	Research status hearing
Doctoral Research I	170001	3	○	6	Research for writing doctoral thesis (1st semester)
Doctoral Research II	170002	3	○		Research for writing doctoral thesis (2nd semester) Doctor thesis research (the second half year)
Doctoral Research III	170003	3	○		Research for writing doctoral thesis (3rd semester) Doctor thesis research (the third half year)
Doctoral Research IV	170004	3	○		Research for writing doctoral thesis (4th semester) Doctor thesis research (the fourth half year)
Doctoral Research V	170005	3	○		Research for writing doctoral thesis (5th semester) Doctor thesis research (the fifth half year)
Doctoral Research VI	170006	3	○		Research for writing doctoral thesis (6th semester) Doctor thesis research (the sixth half year)
Number of credits required for completion				10	
In the "Required/elective" column, ◎ and ○ represent required and elective subjects, respectively.					

※ This curriculum is also used for double degree program students.

(2) Registration procedures

1. Students are required to earn 10 credits or more in total, comprising (i) two credits in the Research Status Hearing, (ii) six credits or more in Doctoral Research (I–VI), and (iii) two credits or more in other subjects.
2. Completion requirements for students who are admitted to the Doctoral Course of the Graduate School of Information Science after having been recognized as having academic ability equivalent to or greater than that of a Master's Degree holder shall be provided for separately.
3. Students who have not earned credits of following classes in master course can take them in doctoral course: Skills for Presentation II, Methods of English Communication I- II, Advanced Scientific Writing, Project Management for Research, Literature Search, Digital Media, Japanese Class for Beginners I, Japanese Class for Beginners II (1)-(2), or Japanese Class for Beginners III

(1)-(2).The earned credits will be transferred to International Communications I A, International Communications I B in this order. Note that two credits of Japanese Classes for Beginners are transferred to one credit of International Communications I A or International Communications I B.

4. Students who earn credits in Advanced Cutting-edge Research Seminar I-IV are required to take the coursers in Advanced Information Science I-IV on the curriculum table of the Master's Course (Attached Schedule 1) which research advisors specify. Note that students are not admitted to earn credits in the same courses in Advanced Information Science I-IV as they have already taken in the Master's Course.

(3) How to read the subject numbers

Subject numbers consist of 6-digit numbers based on levels, difficulties, and other elements of courses. Please review the following information carefully before you register for courses.

First digit : The first digit in the 6-digit numbers indicates categories of common subjects or subjects offered by each Graduate School:

0XXXXX = Common subjects
1XXXXX = Subjects offered by the Graduate School of Information Science
2XXXXX = Subjects offered by the Graduate School of Biological Sciences
3XXXXX = Subjects offered by the Graduate School of Materials Science

Second digit : The second digit in the 6-digit numbers indicates levels of subjects:

X**0**XXXX = Common subjects［For master's course］
X**1**XXXX = General subjects［For master's course］
X**2**XXXX = Basic subjects［For master's course］
X**3**XXXX = Specialized subjects［For master's course］
X**4**XXXX = Advanced topics (Laboratory Activities) / Seminar［For master's course］
X**5**XXXX = Thesis / Specialized research / Research［For master's course］
X**6**XXXX = Doctoral subjects (Except below doctoral subject) ［For doctoral course］
X**7**XXXX = Dissertation / Research［For doctoral course］

Third digit : The third digit in the 6-digit numbers indicates difficulties of subjects:

XX**0**XXX = No category
XX**1**XXX = Basic
XX**2**XXX = Intermediate
XX**3**XXX = Advanced

Fourth, Fifth and Sixth digits : The fourth, fifth and sixth digits in the 6-digit numbers indicate serial numbers in each category indicated by the second digit:

XXX**XXX** = Serial numbers (ranging from 001 to 999) based on levels of subjects categorized by second digit.

Regarding the fourth to sixth digits in the 6-digit numbers of common subjects or subjects offered by other Graduate Schools refer to the following.

i) For common subjects with the first digit of "0", please refer to the following guideline.

Fourth digit : The fourth digit in the 6-digit numbers indicates categories of subjects offered by each Graduate School:

XXX**1**XX = Subjects offered by the Graduate School of Information Science
XXX**2**XX = Subjects offered by the Graduate School of Biological Sciences
XXX**3**XX = Subjects offered by the Graduate School of Materials Science

Fifth and Sixth digits : The fifth and sixth digits in the 6-digit numbers indicate serial numbers assigned by each Graduate School.

XXXX**XX** = Serial numbers (ranging from 01 to 99) assigned by each Graduate School

ii) For subjects offered by other Graduate Schools with the first digit of “2 or 3”, please refer to other Graduate Schools guideline.

Ⅴ　Degree Examination Criteria, etc.

5. Degree examination criteria, etc.

Degree examination criteria

Master's Course

The examination is based on (i) the detailed contents of a master's thesis or thematic research report, and (ii) an oral presentation and (iii) an oral interview based on the thesis or report. Novelty and applicability are important factors in the master's thesis. The examination checks that:

1. Students understand the background and objectives of their research.

2. Knowledge regarding the research project is well organized.

e.g. introduction in the thesis, explanations of basic knowledge, relevant research, significance of the research project

3. The research procedures and method have been carefully developed.

Principles and methods used as references in solving problems in the research project

Validity and appropriateness of newly proposed methods

Applicability and evaluation of newly proposed methods

4. Proposed equations and obtained data, if any, are accurate and properly organized.

The data is suited for the research objectives and research methods.

Figures and tables represent research results properly.

5. Results obtained and unresolved challenges have been discussed.

Research objectives have been attained.

The conclusion shows novelty and importance.

The necessity and vision of future research have been described.

6. Appropriate references are used.

7. The thesis and oral presentation are organized logically and clearly.

Doctoral Course

A doctoral thesis requires novelty and applicability, and at least part of the doctoral thesis must have been published or will be published as a peer-reviewed scientific journal or book or at an international conference with a peer review system, etc. A doctoral thesis is expected to fulfill requirements 1–7 set forth in the Master's Course, and also be disseminated to society and make a social contribution.

The examination is based on the detailed contents of the doctoral thesis, an oral presentation at a public hearing, and a final examination. The examination checks that:

1. At least part of the doctoral thesis has been published.
2. The thesis is characterized by novelty on a global scale.
3. Newly proposed principles and methods are expected to be effectively applied in society.
4. The doctoral thesis has the potential for future development.

Degree Regulations of Nara Institute of Science and Technology

April 1, 2004

Regulations No. 19

Article 1 (Purpose)

The purpose of these Regulations is to stipulate matters relating to conferral of degrees by the Nara Institute of Science and Technology ("NAIST") pursuant to Article 44-3 of the Regulations of the Nara Institute of Science and Technology (2004 Regulations No. 1) ("NAIST Regulations").

Article 2 (Degree types and majors)

1. Degrees conferred by NAIST shall be master's degrees and doctoral degrees.
2. The name of the Graduate School and the major shown in the following table shall be specified in the degree certificate.

Graduate School	Major
Information Science	Science or Engineering
Biological Sciences	Biological Science
Materials Science	Science or Engineering

Article 3 (Degree requirements)

1. A master's degree shall be conferred to students who have completed the Master's Course at NAIST.
2. A doctoral degree shall be conferred to students who have completed the Doctoral Course at NAIST.
3. In addition, a doctoral degree may be conferred to individuals who have passed the doctoral thesis examination and been recognized as having academic ability equivalent to or greater than that of a student who has completed the Doctoral Course at NAIST (individuals who have passed the "Examination of Academic Ability").

Article 4 (Submission of thesis)

1. To complete the Master's Course, students shall submit a master's thesis together with the

prescribed application form for thesis examination to the Dean of the relevant Graduate School and take the final examination.

2. Examination of research results on specified themes may be conducted in place of the master's thesis examination specified in the foregoing subsection.
3. To complete the Doctoral Course, students shall submit a doctoral thesis together with the prescribed application form for thesis examination, list of related papers, abstract of the thesis and curriculum vitae to the Dean of the relevant Graduate School and take the final examination.
4. To receive a doctoral degree pursuant to the provision of subsection 3 of Article 3, students shall specify the major to be indicated in the degree certificate, and pay the thesis examination fee when submitting a degree application form, doctoral thesis, list of related papers, abstract of the thesis, and curriculum vitae to the President.
5. The thesis examination fee shall be 57,000 yen.
6. Upon receipt of the documents specified in subsection 4 of this Article, the President shall forward the documents to the Dean of the relevant Graduate School according to the major specified by the student.
7. Thesis and other documents, once submitted, shall not be returned, and the thesis examination fee, once paid, shall not be refunded.

Article 5 (Thesis)

1. One thesis shall be accepted for degree examination. Students shall submit one copy per master's thesis and three copies per doctoral thesis, provided, however that additional papers may be attached to the thesis for reference.
2. The Dean of the relevant Graduate School may request submission of a translation of the thesis, model, specimen, or other materials if necessary for the thesis examination.

Article 6 (Final examination and Examination of Academic Ability)

1. The final examination shall be conducted by means of a written or oral examination on specialized topics relating to the thesis.
2. The Examination of Academic Ability specified in Article 3-3 above shall be conducted by means of a written or oral examination on the academic subjects relating to the doctoral thesis and on foreign language.

Article 7 (Screening Committee)

1. The Faculty Councils of the respective Graduate Schools shall have a Screening Committee for evaluating theses and conducting the final examination and Examination of Academic Ability.

2. Each of the Screening Committees shall consist of at least two faculty members of the respective Graduate School and common educational and research institution, provided, however, that the Committee members shall include two professors thereof.
3. Each of the Screening Committees shall have a chief referee.
4. Notwithstanding the provision of the foregoing subsection 2, faculty members of other Graduate Schools of NAIST or other graduate schools or research institutions outside of NAIST may be invited to join the Screening Committee if doing so is deemed necessary by the Faculty Council of the Graduate School for screening purposes.
5. Evaluation of doctoral theses submitted pursuant to Article 4-4 and the Examination of Academic Ability shall be completed within one year after the submission thereof, provided, however, that such a period may be extended if there is a special reason, subject to deliberation by the relevant Graduate School.

Article 8 (Notification of results)

1. The Screening Committee involved in conferral of master's degrees shall notify the Faculty Council of the relevant Graduate School of its decision as to whether to confer a master's degree or not in writing, immediately after completion of the evaluation of thesis and final examination.
2. The Screening Committee involved in conferral of doctoral degrees shall notify the Faculty Council of the relevant Graduate School of its decision in writing by specifying whether to confer a doctoral degree or not in the following documents, immediately after completion of the evaluation of thesis and final examination:
   (1) Abstract of the thesis submitted pursuant to Article 4-3, summary of the evaluation of the thesis and summary of the results of the final examination
   (2) Abstract of the thesis submitted pursuant to Article 4-4, summary of the evaluation of the thesis and summary of the results of the Examination of Academic Ability

Article 9 (Deliberation by Faculty Council)

The Faculty Council of each of the Graduate Schools shall discuss whether to confer a degree or not based on the notification specified in the foregoing article.

Article 10 (Notification of conclusion)

The Dean of the relevant Graduate School shall notify the President of the conclusion of the deliberation reached by the Faculty Council thereof in writing.

Article 11 (Conferral of degree)

1. The President shall confer a degree to the student who has been approved to receive the degree based on the notification specified in the foregoing article.
2. The format of a degree certificate shall be Form No. 1, Form No. 2 or Form No. 3 shown separately.
3. If it has been decided not to confer a degree to a certain student, the President shall notify the student of the decision.

Article 12 (Publication of abstract of doctoral thesis)

Within three months after conferring a doctoral degree, the President shall notify the Minister of Education, Culture, Sports, Science and Technology of the conferral and make the abstract of the doctoral thesis and the summary of the results of the evaluation of the thesis public via the internet .

Article 13 (Publication of doctoral thesis)

1. The recipient of a doctoral degree shall make his or her doctoral thesis public within one year after receipt thereof, provided, however, that this provision shall not apply if the thesis has been made public prior to the receipt thereof.
2. Notwithstanding the provision of the foregoing subsection, a recipient of a doctoral degree may make the abstract of his or her doctoral thesis public instead of the full text, subject to approval of NAIST, if there is a justifiable reason. In this case, NAIST shall allow access to the full text of the doctoral thesis when requested.
3. The public release established in the previous two clauses for doctoral degree recipient, shall be conducted via NAIST and the internet.

Article 14 (Reference to the degree)

When an individual who has been conferred a degree from NAIST refers to his or her degree, the name of NAIST shall be also mentioned together with the degree.

Article 15 (Withdrawal of a degree)

If it transpires that an individual was conferred a degree by NAIST by fraudulent means, the President shall withdraw the degree, have the degree certificate returned, and make public the fact, following the deliberation by the Faculty Council of the relevant Graduate School.

Article 16 (Miscellaneous provision)

Other matters relating to conferral of degrees shall be provided for separately.

Supplementary provisions

These Regulations shall come into effect on April 1, 2004.

Supplementary provisions

(Effective date)

1. These Regulations shall come into effect on June 1, 2013.

(Transitional measures)

2. The revised degree regulations (hereinafter referred to as “new degree regulations”) outlined in Article 12 shall apply to those who have been conferred the doctoral degree on or after the date of regulation revision. However, for those who were conferred the doctoral degree prior to the date of revision, the regulations in force at the time of conferment shall apply.
3. The revised degree regulations outlined in Article 13 shall apply to those who have been conferred the doctoral degree on or after the date of regulation revision. However, for those who were conferred the doctoral degree prior to the date of revision, the regulations in force at the time of conferment shall apply.

Form No. 1 (Refer to Article 11) (To be issued for the degree conferred upon completion of the Master’s Course)

修第　　号

学　位　記

氏　名

年　月　日生

本学大学院□□□研究科◯◯◯専攻の博士前期課程を修了したので修士(◯◯)の学位を授与する

平成　年　月　日

奈良先端科学技術大学院大学長

学長名

大学の印　　学長の印

NARA INSTITUTE OF SCIENCE AND TECHNOLOGY

hereby confers the degree of
Master of（専攻分野の名称）

Upon

（ 氏　　名）
(Surname)　(Given name)

(Date of birth)

for having successfully completed the Master’s Program in the Graduate School of （研究科名）
on this day,　（年月日）

Official Seal of the Institute　　President’s Seal

（学長署名）
（学長名）
President

Masterdom No.:　（番号）

(Note 1) The sheet is A4-sized.

(Note 1) The sheet is A4-sized.

Form No. 2 (Refer to Article 11) (To be issued for the degree conferred upon completion of the Doctoral Course)

博第　　号

学　位　記

氏　名

年　月　日生

本学大学院○○○研究科○○○専攻の博士後期課程を修了したので博士(○○)の学位を授与する

平成　年　月　日

奈良先端科学技術大学院大学長

学長名
大学の印　学長の印

(Note 1) The sheet is A4-sized.

NARA INSTITUTE OF SCIENCE AND TECHNOLOGY

hereby confers the degree of
Doctor of（専攻分野の名称）

Upon

（ 氏　　名）
(Surname)　(Given name)

(Date of birth)

for having successfully completed the Doctoral Program
in the Graduate School of （研究科名）
on this day,　（年月日）

Official Seal of the Institute　President's Seal

（学長署名）
（学長名）
President

Doctorate No.:　（番号）

(Note 1) The sheet is A4-sized.

Form No. 3 (Refer to Article 11.) (To be issued for the degree conferred pursuant to Article 3-3)

博第　　号

学　位　記

氏　名

年　月　日生

本学に学位論文を提出し所定の審査に合格したので博士(○○)の学位を授与する

平成　年　月　日

奈良先端科学技術大学院大学長

学長名
大学の印　学長の印

(Note 1) The sheet is A4-sized.

NARA INSTITUTE OF SCIENCE AND TECHNOLOGY

hereby confers the degree of
Doctor of（専攻分野の名称）

Upon

（ 氏　　名）
(Surname)　(Given name)

(Date of birth)

for having submitted a Doctoral Dissertation and having passed the Prescribed Evaluation
on this day,　（年月日）

Official Seal of the Institute　President's Seal

（学長署名）
（学長名）
President

Doctorate No.:　（番号）

(Note 1) The sheet is A4-sized.

Schedule from thesis submission to thesis examination

Degrees will be awarded on a quarterly basis (in late March, June, September, and December).
The table below shows an approximate schedule, as an example, from thesis submission and examination to awarding of a degree. In the example here is for a degree to be awarded in March.

Number	Procedure	For a degree awarded in March
1	The research instructor gives advance notice that doctoral theses will be submitted. Screening Committee member candidates are selected based on the submitted doctoral theses.	At a meeting of the graduate school held in October, November or December
2	The public hearing schedule is set.	At least two weeks before the public hearing
3	Students submit doctoral theses to the Screening Committee member candidates.	At least 10 days before the public hearing
4	The public hearing is held. Presentation: 40 min. Q&A: 20 min.	By mid-January at the latest
5	Students submit a copy of the application form for the thesis examination, doctoral thesis, list of related papers, abstract of the thesis, and curriculum vitae to NAIST (Information Science Office).	At least one week before a meeting of the Faculty Council of the graduate school in February
6	The Screening Committee members are selected.	A meeting of the Faculty Council of the graduate school in early February
7	The Screening Committee members conduct a thesis examination and a final examination.	
8	The Screening Committee members report the examination results. Decisions (pass/fail) are made based on the examination results.	A meeting of the Faculty Council of the graduate school in late February
9	Degrees are awarded to students who pass the examination; such students are deemed to have completed the Doctoral Course.	Late March

VI List of subjects and faculty members in charge for the Graduate School of Infomation Science in academic year 2016

List of subjects and faculty members in charge for the Graduate School of Information Science in academic year 2016

Category	Subject	Domain	Type	Subject Number	Number of credits	Faculty member in charge	Number of classes per week				Total number of classes	English subject	Remarks
							I	II	III	IV			
Basic Subjects	Computer System		L	000101	1	Yasuhiko Nakashima, Keiichi Yasumoto, Yutaka Arakawa, Shigeru Kashihara (in charge of the video lecture)	4		2		15		Common Subjects for All Graduate Schools In principle, Quarter III is intended for students admitted in autumn.
	Algorithm		L	000102	1	Michiko Inoue, Fukuhito Oshita, Yuji Matsumoto, Hiroyuki Shindo, Hiroshi Noji, Tomoya Kawakami (in charge of the video lecture)	4		2		15		Common Subjects for All Graduate Schools In principle, Quarter III is intended for students admitted in autumn.
	Introduction to Biological Science		L	000202	1	Hisaji Maki, etc	2				15		Common Subjects for All Graduate Schools
	Foundation of Materials Science		L	000301	1	Hiroyuki Katsuki, etc	2				15		Common Subjects for All Graduate Schools
	Information Theory		L	120001	1	Yuichi Kaji	2				15		
	Introduction to Formal Language Theory		L	120002	1	Minoru Ito	2				15		
	Introductory Programming Course I		P	120003	1	Kenichi Matsumoto, Akinori Ihara, Hideaki Hata	4				30		
	Introductory Programming Course II		P	120004	1	Kenichi Matsumoto, Hideaki Hata		4			30		
	Principles of Signal Processing		L	120005	1	Hirokazu Kato, Goshiro Yamamoto, Takafumi Taketomi	2				15		
	Numerical Methods		L	120006	1	Hirokazu Kato, Goshiro Yamamoto	2				15		
	Applied Analysis		L	120007	1	Yoshinobu Sato, Yoshito Otake	2				15		
	Fundamental Mathematics for Optimization		L	120008	1	Kenji Sugimoto	2				15		
	Multivariate Analysis		L	120009	1	Kazushi Ikeda, Shigehiko Kanaya		2			15		
	Basic Data Analysis		L	120010	1	Shigehiko Kanaya	2				15		
	Introduction to Stochastic Processes		L	120011	1	Shoji Kasahara		2			15		
	Combinatorics		L	120012	1	(Kenji Maruo)	2				15		
	Algebraic Structures		L	120013	1	(Kenji Maruo)			2		15		
Specialized Subjects in Information Science	Theory of Computation I	C	L	130001	1	Minoru Ito		2			15		
	Theory of Computation II	C	L	130002	1	Michiko Inoue, Fukuhito Oshita		2			15	○	
	Reconfigurable Computing	C	L	130003	1	Shinya Takamaeda, Tran Thi Hong		2			15	○	
	Advanced Algorithm Design	C	L	130004	1	Fukuhito Oshita, Michiko Inoue		2			15		
	Distributed Systems and Middleware	C	L	130005	1	Keiichi Yasumoto	2				15	○	
	Software Design	C	L	130006	1	Hajimu Iida, (Norihiro Yoshida)	Intensive lectures				15		
	System Requirement Engineering	C	L	130007	1	(Toshinori Takai, Yasushi Tanaka, Masafumi Katahira,Naoki Ishihama, Ryo Ujiie)	Intensive lectures				15		
	Virtual Systems Infrastracture	C	L	130008	1	Kohei Ichikawa, Yasuhiro Watashiba				2	15	○	
	Software Engineering I	C	L	131009	1	Kenichi Matsumoto, Akinori Ihara, Hideaki Hata	2				15		
	Software Engineering II	C	L	132010	1						15		N/A in this academic year
	Speech Processing	M	L	130011	1	Satoshi Nakamura, (Hiromichi Kawanami, Koichiro Yoshino, Tomoki Toda, Shinnosuke Takamichi)			2		15		
	Artificial Intelligence: Searching and Mining	M	L	130012	1	Masashi Shimbo	2				15	○	
	Ambient Intelligence	M	L	130013	1	(Norihiro Hagita), Masayuki Kanbara			2		15	○	
	Natural Language Processing	M	L	130014	1	Yuji Matsumoto, (Hideki Kashioka), Hiroyuki Shindo			2		15		
	Computer Vision I	M	L	131015	1	Tomokazu Sato, Yuta Nakashima			2		15	○	
	Computer Vision II	M	L	132016	1	Yasuhiro Mukaigawa			2		15		
	Computer Graphics	M	L	130017	1	Takuya Funatomi, Hiroyuki Kubo	2				15	○	
	Virtual Reality	M	L	130018	1	Masayuki Kanbara, Takafumi Taketomi				2	15		
	Digital Image Processing	M	L	130019	1	Naokazu Yokoya, Norihiko Kawai		2			15		
	Coding Theory	C	L	130020	1	Yuichi Kaji			2		15	○	
	Information Network I	C	L	131021	2	Suguru Yamaguchi, Youki Kadobayashi	4				30	○	
	Information Network II	C	L	132022	2	Kazutoshi Fujikawa, (Atsuo Inomata), Ismail Arai, Masatoshi Kakiuchi			4		30		
	Wireless Communication Systems	M	L	130023	1	Minoru Okada, Takeshi Higashino, Yafei Hou		2			15		
	Signal Detection Theory	M	L	130024	1	Minoru Okada, Takeshi Higashino, Yafei Hou			2		15	○	
	Network Simulation	M	L	130025	1	Minoru Okada, Takeshi Higashino, Yafei Hou			2		15		
	Sequential Data Modeling	M	L	130026	1	(Tomoki Toda), Graham Neubig, Sakriani Sakti		2			15	○	
	Human Computer Interaction	M	L	130027	1	Christian Sandor				2	15	○	
	Pattern Recognition	M	L	130028	1	Norimichi Ukita		2			15		
	Game Theory	A	L	130029	1	Masahiro Sasabe		2			15		
	Systems Control I	A	L	131030	1	Takamitsu Matsubara			2		15		
	Systems Control II	A	L	132031	1	Kenji Sugimoto		2			15	○	
	Robotics I	A	L	131032	1	Tsukasa Ogasawara, Jun Takamatsu	2				15		

Specialized Subjects in Information Science	Robotics II	A	L	132033	1	Tsukasa Ogasawara, Jun Takamatsu, (Yoshio Matsumoto, Mitsunori Tada)			2		15	○	
	Mathematical Modeling	A	L	130034	1	Kazushi Ikeda, Hiroaki Sasaki		2			15		
	Computational Neuroscience	A	L	130035	1	Junichiro Yoshimoto, Tomoya Tamei,(Jun Morimoto, Kenji Doya, Makoto Ito)			2		15	○	
	Ubiquitous Information Processing	C	L	130036	1	Yutaka Arakawa	2				15		
	Bio-Imaging	A	L	130037	1	(Tadao Sugiura, Hidehiro Iida, Kazuhiro Koshino)			2		15		
	Systems Biology I	A	L	130038	1	Shigehiko Kanaya, Md. Altaf-Ul-Amin	2				15	○	
	Systems Biology II	A	L	130039	1	Shigehiko Kanaya, Md. Altaf-Ul-Amin			2		15		
	Medical Imaging Analysis	A	L	130040	1	Yoshinobu Sato				2	15	○	
	Biomedical Media Informatics	A	L	130041	1	Yoshito Otake		2			15		
	Big Data Analytics	Common	L	130042	1	Satoshi Nakamura, Shigehiko Kanaya, Yu Suzuki, (Koichiro Yoshino, Michiaki Iwazume, Kunio Matsui)			2		15		
	Information Security & Our Society	C	L	130043	2	Suguru Yamaguchi, (Jun Murai)			2	2	30	○	
	Data Mining	A	L	130044	1	Md. Altaf-Ul-Amin			2		15	○	
	Mobile Computing	C	L	130045	1	Naoki Shibata		2			15	○	
	Advanced Cutting-edge Research Seminar I	Common	L	130046	1						15	○	N/A in this academic year
	Advanced Cutting-edge Research Seminar II	Common	L	130047	1	Tran Thi Hong, Manato Fujimoto, Doudou Fall, Sakriani Sakti, Graham Neubig, Yafei Hou, Yuta Nakashima, Futoshi Yokota, Naoaki Ono, Norihiko Kawai				2	15	○	10 classes will be offered. (1 credit for 2 classes)
	Advanced Cutting-edge Research Seminar III	Common	L	130048	1						15	○	N/A in this academic year
	Advanced Cutting-edge Research Seminar IV	Common	L	130049	1	Tran Thi Hong, Manato Fujimoto, Doudou Fall, Sakriani Sakti, Graham Neubig, Yafei Hou, Yuta Nakashima, Futoshi Yokota, Naoaki Ono, Norihiko Kawai				2	15	○	10 classes will be offered. (1 credit for 2 classes)
	Project Practice I	Common	P	130050	2						60		N/A in this academic year
	Project Practice II	Common	P	130051	2	Faculty members in charge of respective themes and non-NAIST instructors	Different for respective themes				60		A few classes will be offered
	Project Practice III	Common	P	130052	2						60		N/A in this academic year
	Project Practice IV	Common	P	130053	2	Faculty members in charge of respective themes and non-NAIST instructors	Different for respective themes				60		A few classes will be offered
	Exercise in Practical Software Development I	Common	P	130054	2	Hajimu Iida, Yasuhiro Watashiba, Shinya Takamaeda			2		30		
	Exercise in Practical Software Development II	Common	P	130055	2	Kohei Ichikawa, Yasuhiro Watashiba, Tomokazu Yoneda				2	30		
	Theory of Advanced IT	Common	L	130056	1	Hajimu Iida, Jun Takamatsu, (Atsuo Inomata, Yasushi Tanaka, Toshinori Takai)			2		15		
	Studio of Advanced IT I	Common	P	130057	2	Jun Takamatsu, (Yasushi Tanaka, Toshinori Takai)	Different for respective themes				30		
	Studio of Advanced IT II	Common	P	130058	2	Jun Takamatsu, (Yasushi Tanaka, Toshinori Takai)	Different for respective themes				30		
	Introduction to Advanced Robot Technology	A	L	130059	1						15		N/A in this academic year
	Advanced Robot Design	A	P	130060	2	Jun Takamatsu, Masayuki Kanbara, Takamitsu Matsubara, (Masahiro Yoshikawa)	Intensive lectures				60		
	Advanced Robot Development Theory I	A	P	131061	1	Jun Takamatsu, (Masahiro Yoshikawa)	Intensive lectures				30		
	Advanced Robot Development Theory II	A	P	132062	1	Jun Takamatsu, (Masahiro Yoshikawa, Akihiko Yamaguchi)	Intensive lectures				30		
	Lecture of Information Security Management Literacy I	C	L	130063	1	Suguru Yamaguchi, (Atsuo Inomata, Hiromitsu Takagi, Takashi Matsumoto, Tetsutaro Uehara)	Intensive lectures				15		(at Osaka University Nakanoshima Center)
	Lecture of Information Security Management Literacy II	C	L	130064	1	Kazutoshi Fujikawa, (Kazumasa Utashiro, Atsuo Inomata, Hisamichi Okamura, Tomohiko Yamakawa)	Intensive lectures				15		(at Osaka University Nakanoshima Center)

Specialized Subjects in Information Science	Exercise for Information Security PBL A	C	P	130065	1	Kazutoshi Fujikawa, (Atsuo Inomata), Takeshi Okuda, (Shingo Okamura)	Intensive lectures				15		
	Exercise for Information Security PBL B	C	P	130066	1	Kazutoshi Fujikawa, (Atsuo Inomata), Takeshi Okuda, (Shingo Okamura)	Intensive lectures				15		
	Exercise for Information Security PBL C	C	P	130067	1	Kazutoshi Fujikawa, (Atsuo Inomata), Takeshi Okuda	Intensive lectures				15		
	Exercise for Information Security PBL D	C	P	130068	1	Youki Kadobayashi, Takeshi Okuda, (Yoichi Shinoda, Shinsuke Miwa)	Intensive lectures				15		
	Exercise for Information Security PBL E	C	P	130069	1	Kazutoshi Fujikawa, (Atsuo Inomata), Takeshi Okuda	Intensive lectures				15		
	Exercise for Information Security PBL F	C	P	130070	1	(Atsuo Inomata), Takeshi Okuda, (Hideaki Sone, Yuichi Hayashi, Naofumi Honma)	Intensive lectures				15		
	Exercise for Information Security PBL G	C	P	130071	1	Kazutoshi Fujikawa, (Atsuo Inomata), Takeshi Okuda, (Shingo Okamura)	Intensive lectures				15		
General Subjects	Commentaries on Science and Technology			000103	1	Faculty members in charge		2			15		Common Subjects for All Graduate Schools
	Science Communication			000201	1	Faculty members in charge			4		15		Common Subjects for All Graduate Schools
	Skills for English Presentation Ⅰ			110001	1	(David Sell)	2				15	○	Tuesday or Friday (based on TOEIC score)
	Methods of English Communication Ⅰ			110002	1	*To Be Determined			2		15	○	
	Methods of English Communication Ⅱ			111003	1	*To Be Determined				2	15	○	
	Advanced Scientific Writing			112004	1	(David Sell)		2			15	○	
	Skills for English Presentation Ⅱ			110005	1	(David Sell)		2			15	○	
	Project Management for Research			110006	1						15	○	N/A in this academic year
	Literature Search			110007	1	*To Be Determined			2		15	○	
	Digital Media			110008	1	*To Be Determined				2	15	○	
General Subjects	Intercultural Communication(Advanced Specific Field Seminar Ⅰ)			110009	1	(David Sell)				2	15	○	
	Intellectual Property Rights			110010	1	Kozo Kubo			2		15	○	
	Global Entrepreneur Ⅰ			111011	1	Faculty members in charge	Intensive lectures				15		
	Global Entrepreneur Ⅱ			111012	1	Faculty members in charge	Intensive lectures				15		
	Global Entrepreneur Ⅲ			112013	1	Faculty members in charge	Intensive lectures				15		
	Global Entrepreneur Ⅳ			112014	1	Faculty members in charge	Intensive lectures				15		
	Global Entrepreneur Ⅴ			112015	1	Faculty members in charge	Intensive lectures				15		
	Philosophy of Science			000104	1	(Hisashi Nakao)		4			15		Common Subjects for All Graduate Schools
	Technology and Professional Ethics			000105	1	(Shushi Ueda)			4		15	○	Common Subjects for All Graduate Schools
	Information Technology for Environmental Issues			110016	1						15		N/A in this academic year
	Japanese Culture			000106	2	(Adarsh Bala Sharma)	2	2	2	2	30	○	Common Subjects for All Graduate Schools
	Japanese Class for Begginers Ⅰ			000303	2	(Mikiko Iwasaki, Noriko Kunii, Akiyo Kasai)			4		30		Common Subjects for All Graduate Schools, For students from abroad
	Japanese Class for Begginers Ⅱ(1)			000203	1	(Masako Hashimoto)			2		15		Common Subjects for All Graduate Schools, For students from abroad
	Japanese Class for Begginers Ⅱ(2)			000204	1	(Masako Hashimoto)	2				15		Common Subjects for All Graduate Schools, For students from abroad
	Japanese Class for Begginers Ⅲ(1)			-	1						15		N/A in this academic year
	Japanese Class for Begginers Ⅲ(2)			-	1						15		N/A in this academic year
	Academic Volunteer Ⅰ			110017	1	Yutaka Arakawa	Different for respective themes				30		
	Academic Volunteer Ⅱ			110018	1	Yutaka Arakawa	Different for respective themes				30		
Advanced Topics in Information Science	Advanced Computing Architecture Ⅰ			140001	1	Yasuhiko Nakashima, Shinya Takamaeda, Tran Thi Hong	Different for respective subjects						
	Advanced Computing Architecture Ⅱ			140002	1	Yasuhiko Nakashima, Shinya Takamaeda, Tran Thi Hong	Different for respective subjects						
	Advanced Computing Architecture Ⅲ			140003	1	Yasuhiko Nakashima, Shinya Takamaeda, Tran Thi Hong	Different for respective subjects						
	Advanced Computing Architecture Ⅳ			140004	1	Yasuhiko Nakashima, Shinya Takamaeda, Tran Thi Hong	Different for respective subjects						
	Advanced Dependable System Ⅰ			140005	1	Michiko Inoue, Fukuhito Oshita, Tomokazu Yoneda,Yuta Yamato	Different for respective subjects						
	Advanced Dependable System Ⅱ			140006	1	Michiko Inoue, Fukuhito Oshita, Tomokazu Yoneda,Yuta Yamato	Different for respective subjects						
	Advanced Dependable System Ⅲ			140007	1	Michiko Inoue, Fukuhito Oshita, Tomokazu Yoneda,Yuta Yamato	Different for respective subjects						
	Advanced Dependable System Ⅳ			140008	1	Michiko Inoue, Fukuhito Oshita, Tomokazu Yoneda,Yuta Yamato	Different for respective subjects						
	Advanced Ubiquitous Computing Systems Ⅰ			140009	1	Keiichi Yasumoto, Yutaka Arakawa, Hirohiko Suwa, Manato Fujimoto	Different for respective subjects						
	Advanced Ubiquitous Computing Systems Ⅱ			140010	1	Keiichi Yasumoto, Yutaka Arakawa, Hirohiko Suwa, Manato Fujimoto	Different for respective subjects						
	Advanced Ubiquitous Computing Systems Ⅲ			140011	1	Keiichi Yasumoto, Yutaka Arakawa, Hirohiko Suwa, Manato Fujimoto	Different for respective subjects						
	Advanced Ubiquitous Computing Systems Ⅳ			140012	1	Keiichi Yasumoto, Yutaka Arakawa, Hirohiko Suwa, Manato Fujimoto	Different for respective subjects						
	Advanced Mobile Computing Ⅰ			140013	1	Minoru Ito, Naoki Shibata	Different for respective subjects						
	Advanced Mobile Computing Ⅱ			140014	1	Minoru Ito, Naoki Shibata	Different for respective subjects						
	Advanced Mobile Computing Ⅲ			140015	1	Minoru Ito, Naoki Shibata	Different for respective subjects						
	Advanced Mobile Computing Ⅳ			140016	1	Minoru Ito, Naoki Shibata	Different for respective subjects						

Advanced Topics in Information Science	Advanced Software Engineering Ⅰ	140017	1	Kenichi Matsumoto, Akinori Ihara, Hideaki Hata	Different for respective subjects			
	Advanced Software Engineering Ⅱ	140018	1	Kenichi Matsumoto, Akinori Ihara, Hideaki Hata	Different for respective subjects			
	Advanced Software Engineering Ⅲ	140019	1	Kenichi Matsumoto, Akinori Ihara, Hideaki Hata	Different for respective subjects			
	Advanced Software Engineering Ⅳ	140020	1	Kenichi Matsumoto, Akinori Ihara, Hideaki Hata	Different for respective subjects			
	Advanced Software Design and Analysis Ⅰ	140021	1	Hajimu Iida, Kohei Ichikawa	Different for respective subjects			
	Advanced Software Design and Analysis Ⅱ	140022	1	Hajimu Iida, Kohei Ichikawa	Different for respective subjects			
	Advanced Software Design and Analysis Ⅲ	140023	1	Hajimu Iida, Kohei Ichikawa	Different for respective subjects			
	Advanced Software Design and Analysis Ⅳ	140024	1	Hajimu Iida, Kohei Ichikawa	Different for respective subjects			
	Advanced Internet Engineering Ⅰ	140025	1	Suguru Yamaguchi	Different for respective subjects			
	Advanced Internet Engineering Ⅱ	140026	1	Suguru Yamaguchi	Different for respective subjects			
	Advanced Internet Engineering Ⅲ	140027	1	Suguru Yamaguchi	Different for respective subjects			
	Advanced Internet Engineering Ⅳ	140028	1	Suguru Yamaguchi	Different for respective subjects			
	Advanced Internet Architecture and Systems Ⅰ	140029	1	Kazutoshi Fujikawa, Ismail Arai, Masatoshi Kakiuchi, Akira Yutani	Different for respective subjects			
	Advanced Internet Architecture and Systems Ⅱ	140030	1	Kazutoshi Fujikawa, Ismail Arai, Masatoshi Kakiuchi, Akira Yutani	Different for respective subjects			
	Advanced Internet Architecture and Systems Ⅲ	140031	1	Kazutoshi Fujikawa, Ismail Arai, Masatoshi Kakiuchi, Akira Yutani	Different for respective subjects			
	Advanced Internet Architecture and Systems Ⅳ	140032	1	Kazutoshi Fujikawa, Ismail Arai, Masatoshi Kakiuchi, Akira Yutani	Different for respective subjects			
	Advanced Computational Linguistics Ⅰ	140033	1	Yuji Matsumoto	Different for respective subjects			
	Advanced Computational Linguistics Ⅱ	140034	1	Yuji Matsumoto	Different for respective subjects			
	Advanced Computational Linguistics Ⅲ	140035	1	Yuji Matsumoto	Different for respective subjects			
	Advanced Computational Linguistics Ⅳ	140036	1	Yuji Matsumoto	Different for respective subjects			
	Advanced Augmented Human Communication Ⅰ	140037	1	Satoshi Nakamura	Different for respective subjects			
	Advanced Augmented Human Communication Ⅱ	140038	1	Satoshi Nakamura	Different for respective subjects			
	Advanced Augmented Human Communication Ⅲ	140039	1	Satoshi Nakamura	Different for respective subjects			
	Advanced Augmented Human Communication Ⅳ	140040	1	Satoshi Nakamura	Different for respective subjects			
	Advanced Network Systems Ⅰ	140041	1	Minoru Okada	Different for respective subjects			
	Advanced Network Systems Ⅱ	140042	1	Minoru Okada	Different for respective subjects			
	Advanced Network Systems Ⅲ	140043	1	Minoru Okada	Different for respective subjects			
	Advanced Network Systems Ⅳ	140044	1	Minoru Okada	Different for respective subjects			
	Advanced Vision and Media Computing Ⅰ	140045	1	Naokazu Yokoya	Different for respective subjects			
	Advanced Vision and Media Computing Ⅱ	140046	1	Naokazu Yokoya	Different for respective subjects			
	Advanced Vision and Media Computing Ⅲ	140047	1	Naokazu Yokoya	Different for respective subjects			
	Advanced Vision and Media Computing Ⅳ	140048	1	Naokazu Yokoya	Different for respective subjects			
	Advanced Interactive Media Design Ⅰ	140049	1	Hirokazu Kato, Christian Sandor, Goshiro Yamamoto, Takafumi Taketomi	Different for respective subjects			
	Advanced Interactive Media Design Ⅱ	140050	1	Hirokazu Kato, Christian Sandor, Goshiro Yamamoto, Takafumi Taketomi	Different for respective subjects			
	Advanced Interactive Media Design Ⅲ	140051	1	Hirokazu Kato, Christian Sandor, Goshiro Yamamoto, Takafumi Taketomi	Different for respective subjects			
	Advanced Interactive Media Design Ⅳ	140052	1	Hirokazu Kato, Christian Sandor, Goshiro Yamamoto, Takafumi Taketomi	Different for respective subjects			
	Advanced Optical Media Interface Ⅰ	140053	1	Yasuhiro Mukaigawa	Different for respective subjects			
	Advanced Optical Media Interface Ⅱ	140054	1	Yasuhiro Mukaigawa	Different for respective subjects			
	Advanced Optical Media Interface Ⅲ	140055	1	Yasuhiro Mukaigawa	Different for respective subjects			
	Advanced Optical Media Interface Ⅳ	140056	1	Yasuhiro Mukaigawa	Different for respective subjects			
	Advanced Ambient Intelligence Ⅰ	140057	1	(Norihiro Hagita)	Different for respective subjects			
	Advanced Ambient Intelligence Ⅱ	140058	1	(Norihiro Hagita)	Different for respective subjects			
	Advanced Ambient Intelligence Ⅲ	140059	1	(Norihiro Hagita)	Different for respective subjects			
	Advanced Ambient Intelligence Ⅳ	140060	1	(Norihiro Hagita)	Different for respective subjects			
	Advanced Robotics Ⅰ	140061	1	Tsukasa Ogasawara	Different for respective subjects			
	Advanced Robotics Ⅱ	140062	1	Tsukasa Ogasawara	Different for respective subjects			
	Advanced Robotics Ⅲ	140063	1	Tsukasa Ogasawara	Different for respective subjects			
	Advanced Robotics Ⅳ	140064	1	Tsukasa Ogasawara	Different for respective subjects			
	Advanced Intelligent System Control Ⅰ	140065	1	Kenji Sugimoto, Takamitsu Matsubara, Yuki Minami	Different for respective subjects			
	Advanced Intelligent System Control Ⅱ	140066	1	Kenji Sugimoto, Takamitsu Matsubara, Yuki Minami	Different for respective subjects			
	Advanced Intelligent System Control Ⅲ	140067	1	Kenji Sugimoto, Takamitsu Matsubara, Yuki Minami	Different for respective subjects			
	Advanced Intelligent System Control Ⅳ	140068	1	Kenji Sugimoto, Takamitsu Matsubara, Yuki Minami	Different for respective subjects			
	Advanced Mathematical Informatics Ⅰ	140069	1	Kazushi Ikeda	Different for respective subjects			
	Advanced Mathematical Informatics Ⅱ	140070	1	Kazushi Ikeda	Different for respective subjects			

Advanced Topics in Information Science	Advanced Mathematical Informatics Ⅲ	140071	1	Kazushi Ikeda	Different for respective subjects					
	Advanced Mathematical Informatics Ⅳ	140072	1	Kazushi Ikeda	Different for respective subjects					
	Advanced Computational Systems Biology Ⅰ	140073	1	Shigehiko Kanaya	Different for respective subjects					
	Advanced Computational Systems Biology Ⅱ	140074	1	Shigehiko Kanaya	Different for respective subjects					
	Advanced Computational Systems Biology Ⅲ	140075	1	Shigehiko Kanaya	Different for respective subjects					
	Advanced Computational Systems Biology Ⅳ	140076	1	Shigehiko Kanaya	Different for respective subjects					
	Advanced Large-Scale Systems Management Ⅰ	140077	1	Shoji Kasahara, Masahiro Sasabe, Jun Kawahara	Different for respective subjects					
	Advanced Large-Scale Systems Management Ⅱ	140078	1	Shoji Kasahara, Masahiro Sasabe, Jun Kawahara	Different for respective subjects					
	Advanced Large-Scale Systems Management Ⅲ	140079	1	Shoji Kasahara, Masahiro Sasabe, Jun Kawahara	Different for respective subjects					
	Advanced Large-Scale Systems Management Ⅳ	140080	1	Shoji Kasahara, Masahiro Sasabe, Jun Kawahara	Different for respective subjects					
	Advanced Imaging-based Computational Biomedicine Ⅰ	140081	1	Yoshinobu Sato, Yoshito Otake	Different for respective subjects					
	Advanced Imaging-based Computational Biomedicine Ⅱ	140082	1	Yoshinobu Sato, Yoshito Otake	Different for respective subjects					
	Advanced Imaging-based Computational Biomedicine Ⅲ	140083	1	Yoshinobu Sato, Yoshito Otake	Different for respective subjects					
	Advanced Imaging-based Computational Biomedicine Ⅳ	140084	1	Yoshinobu Sato, Yoshito Otake	Different for respective subjects					
	Seminar I	140085	1	Faculty members in charge of courses selected by students	2					
	Seminar II	140086	1	Faculty members in charge of courses selected by students	2					
	Research Work	150001	4	Faculty members in charge of courses selected by students						
	Theme Research	150002	4	Faculty members in charge of courses selected by students						
Doctoral Course	International Communications	160801, 160802	1	(David Sell)	2	2	2	2		
	International Practice	160803, 160804, 160805	2	Faculty members in charge of courses selected by students	Different for respective themes					
	Advanced Specific Field Seminar I	110811	1	(David Sell)				2		
	Advanced Specific Field Seminar II	110812	1							N/A in this academic year
	Advanced Cutting-edge Research Seminar Ⅰ - Ⅳ	130813, 130814, 130815, 130816	1	Faculty members in charge				2		10 classes will be offered. (1 credit for 2 classes)
	Advanced Project Management	160817	2	Faculty members in charge of courses selected by students	Offered as necessary					
	Research Status Hearing	170818	2	Faculty members in charge of courses selected by students	Offered as necessary					
	Doctoral Research Ⅰ, Ⅲ, Ⅴ	170901, 170902, 170903	3	Faculty members in charge of courses selected by students	Offered as necessary					
	Doctoral Research Ⅱ, Ⅳ, Ⅵ	170904, 170905, 170906	3	Faculty members in charge of courses selected by students			Offered as necessary			

・"L" in the "Type" column stands for lectures, "P" for practices.

・"C" in the "Domain" column stands for the computer science domain, "M" for the media informatics domain, "A" for the system informatics domain, and "Common" for common subjects in different domains.

・ Faculty members in charge shown in parentheses are part-time instructors. The detailed schedule for intensive lectures can be found in the electronic syllabus.

・Students can take Advanced Topics in Information Science provided by a laboratory different from the one they belong to though the credits of those subjects shall not count as credits toward completion. See the electronic syllabus for the information on whether each Advanced Topics in Information Science can be taken by students belonging to different laboratories.

Numbering Information

Subject numbers consist of 6-digit numbers based on levels, difficulties, and other elements of courses. Please review the following information carefully before you register for courses.

［How to read the subject numbers］

First digit : The first digit in the 6-digit numbers indicates categories of common subjects or subjects offered by each Graduate School:

0XXXXX = Common Subjects for All Graduate Schools

1XXXXX = Subjects offered by the Graduate School of Information Science

2XXXXX = Subjects offered by the Graduate School of Biological Sciences

3XXXXX = Subjects offered by the Graduate School of Materials Science

Second digit : The second digit in the 6-digit numbers indicates levels of subjects:

X**0**XXXX = Common subjects［For master’s course］

X**1**XXXX = General subjects［For master’s course］

X**2**XXXX = Basic subjects［For master’s course］

X**3**XXXX = Specialized subjects［For master’s course］

X**4**XXXX = Advanced topics (Laboratory Activities) / Seminar ［For master’s course］

X**5**XXXX = Thesis / Specialized research / Research［For master’s course］

X**6**XXXX = Doctoral subjects (Except below doctoral subject) ［For doctoral course］

X**7**XXXX = Dissertation / Research［For doctoral course］

Third digit : The third digit in the 6-digit numbers indicates difficulties of subjects:

XX**0**XXX = No category

XX**1**XXX = Basic

XX**2**XXX = Intermediate

XX**3**XXX = Advanced

Fourth, Fifth and Sixth digits : The fourth, fifth and sixth digits in the 6-digit numbers indicate serial numbers in each category indicated by the second digit:.

XXX**XXX** = Serial numbers (ranging from 001 to 999) based on levels of subjects categorized by second digit.

Regarding the fourth to sixth digits in the 6-digit numbers of common subjects or subjects offered by other Graduate Schools refer to the following.

i) For common subjects with the first digit of “0”, please refer to the following guideline.

Fourth digit : The fourth digit in the 6-digit numbers indicates categories of subjects offered by each Graduate School:

Regarding the fourth to sixth digits in the 6-digit numbers of common subjects or subjects offered by other Graduate Schools refer to the following.

i) For common subjects with the first digit of "0", please refer to the following guideline.

Fourth digit : The fourth digit in the 6-digit numbers indicates categories of subjects offered by each Graduate School:

XXX**1**XX = Subjects offered by the Graduate School of Information Science
XXX**2**XX = Subjects offered by the Graduate School of Biological Sciences
XXX**3**XX = Subjects offered by the Graduate School of Materials Science

Fifth and Sixth digits : The fifth and sixth digits in the 6-digit numbers indicate serial numbers assigned by each Graduate School.
XXXX**XX** = Serial numbers (ranging from 01 to 99) assigned by each Graduate School

ii) For subjects offered by other Graduate Schools with the first digit of "2 or 3", please refer to other Graduate Schools guideline.

Quarter I (Wednesday, April 6 – Thursday, June 2)

(Classes for Friday are provided on May 25 (Wed.). Classes for Tuesday are provided on May 30 (Mon.). June 1st (Wed.) is for supplementary classes.)

	Mon.	Tue.	Wed.	Thu.	Fri.
1st period 9:20 | 10:50	Advanced Topics in Information Science Ⅰ / Ⅱ / Ⅲ / Ⅳ	Information Theory [L1] Yuichi Kaji	Advanced Topics in Information Science Ⅰ / Ⅱ / Ⅲ / Ⅳ	Principles of Signal Processing [L1] Hirokazu Kato, Goshiro Yamamoto, Takafumi Taketomi	Basic Data Analysis [L1] Shigehiko Kanaya
		＊Systems Biology Ⅰ [L2] Shigehiko Kanaya, MD. ALTAF-UL-AMIN			＊Information Network Ⅰ [L2] Suguru Yamaguchi, Youki Kadobayashi
		Ubiquitous Information Processing [L3] Yutaka Arakawa		Introduction to Formal Language Theory [L3] Minoru Ito	System Requirement Engineering ※9 [L3] Toshinori Takai, Yasushi Tanaka, Masashi Katahira, Naoki Ishihama, Ryo Ujiie
2nd period 11:00 | 12:30	Advanced Topics in Information Science Ⅰ / Ⅱ / Ⅲ / Ⅳ	Software Engineering Ⅰ [L1] Kenichi Matsumoto, Akinori Ihara, Hideaki Hata	Advanced Topics in Information Science Ⅰ / Ⅱ / Ⅲ / Ⅳ	Robotics Ⅰ [L1] Tsukasa Ogasawara, Jun Takamatsu	Numerical Methods [L1] Hirokazu Kato, Goshiro Yamamoto
		＊Artificial Intelligence: Searching and Mining [L2] Masashi Shimbo		＊Computer Graphics [L2] Takuya Funatomi, Hiroyuki Kubo	＊Information Network Ⅰ [L2] Suguru Yamaguchi, Youki Kadobayashi
		Fundamental Mathematics for [L3] Kenji Sugimoto		＊Distributed Systems and Middleware [L3] Keiichi Yasumoto	System Requirement Engineering ※9 [L3] Toshinori Takai, Yasushi Tanaka, Masashi Katahira, Naoki Ishihama, Ryo Ujiie
3rd period 13:30 | 15:00	Seminar Ⅰ/ Ⅱ [L1,L2,L3] Supervisors	Applied Analysis [L1] Yoshinobu Sato, Yoshito Otake	Seminar Ⅰ/ Ⅱ [L1,L2,L3] Supervisors	Combinatorics [L1] Kenji Maruo	
		＊Skills for English Presentation Ⅰ ※1 [L3] David Sell			＊Skills for English Presentation Ⅰ ※1 [L3] David Sell
4th period 15:10 | 16:40	Research Work / Theme Research	Computer System ※2※3 [L1,L2] Yasuhiko Nakashima, Keiichi Yasumoto, Yutaka Arakawa, Shigeru Kashihara	Research Work / Theme Research		Computer System ※2※3 [L1,L2] Yasuhiko Nakashima, Keiichi Yasumoto, Yutaka Arakawa, Shigeru Kashihara
		Algorithm ※2※4 [L1,L2] Michiko Inoue, Fukuhito Oshita, Yuji Matsumoto, Hiroyuki Shindo, Hiroshi Noji, Tomoya Kawakami			Algorithm ※2※4 [L1,L2] Michiko Inoue, Fukuhito Oshita, Yuji Matsumoto, Hiroyuki Shindo, Hiroshi Noji, Tomoya Kawakami
		＊Japanese Culture ※6 [L3] Adarsh Bala Sharma			
		Introduction to Biological Science ※5 [BS Large Lecture Room] Hisaji Maki, etc.		Introductory Programming Course Ⅰ [A207] Kenichi Matsumoto, Akinori Ihara, Hideaki Hata	Introduction to Biological Science ※5 [BS Large Lecture Room] Hisaji Maki, etc.
				Project Practice Ⅱ, Ⅳ ※8 [Depends on the theme] Faculty members in charge of respective themes and instructors outside the university	Japanese Class for Begginers Ⅱ(2) ※10 [Bio L12] Masako Hashimoto
5th period 16:50 | 18:20	Research Work / Theme Research	Computer System ※2※3 [L1,L2] Yasuhiko Nakashima, Keiichi Yasumoto, Yutaka Arakawa, Shigeru Kashihara	Research Work / Theme Research		Computer System ※2※3 [L1,L2] Yasuhiko Nakashima, Keiichi Yasumoto, Yutaka Arakawa, Shigeru Kashihara
		Algorithm ※2※4 [L1,L2] Michiko Inoue, Fukuhito Oshita, Yuji Matsumoto, Hiroyuki Shindo, Hiroshi Noji, Tomoya Kawakami			Algorithm ※2※4 [L1,L2] Michiko Inoue, Fukuhito Oshita, Yuji Matsumoto, Hiroyuki Shindo, Hiroshi Noji, Tomoya Kawakami
				Introductory Programming Course Ⅰ [A207] Kenichi Matsumoto, Akinori Ihara, Hideaki Hata	
		Foundation of Materials Science ※7 [MS Large Lecture Room] Hiroyuki Katsuki, etc.		Project Practice Ⅱ, Ⅳ ※8 [Depends on the theme] Faculty members in charge of respective themes and instructors outside the university	Foundation of Materials Science ※7 [MS Large Lecture Room] Hiroyuki Katsuki, etc.

Remarks

＊: English subject

※1 Skills for English Presentation I on Tuesday is recommended for students whose TOEIC score is 400 points or higher. Classes on Friday are recommended for students whose TOEIC score is less than 400 points.

※2 Computer System, Algorithm are available for students admitted in autumn via the video archive in Quarter III. (Students are required to contact faculty members in charge of lectures in Quarter I by the end of the first week of Quarter III.)

※3 Computer System : 4/8(Fri.): 4th period, 4/12(Tue.), 4/15(Fri.), 4/19(Tue.): 4 th & 5th periods, 4/22(Fri.): 4th period (8 lectures)
※4 Algorithm : 4/22(Fri.): 5th period, 4/26(Tue.), 5/6(Fri.), 5/10(Tue.): 4th & 5th periods, 5/13(Fri.): 5th period (8 lectures)
※5 Introduction to Biological Science : 5/13(Fri.), 5/17 (Tue.), 5/20(Fri.), 5/27(Fri.), 5/31(Tue.), 6/7(Tue.), 6/17(Fri.), 6/21(Tue.) (8 lectures)
※6 Japanese Culture, 4/12(Tue.), 4/19(Tue.), 4/23(Sat., Field trip 1), 4/26(Tue.), 5/7(Sat., Field trip 2), 5/10(Tue.), 5/17(Tue.), 5/24(Tue.), 5/31(Tue.), 6/7(Tue.), 6/14(Tue.), 6/21(Tue.), 6/28(Tue.), 7/5(Tue.), 7/12(Tue.), 7/19(Tue.) (16 lectures)
※7 Foundation of Materials Science : 5/17 (Tue.), 5/20(Fri.), 5/27(Fri.), 5/31(Tue.), 6/3(Fri.), 6/7(Tue.), 6/10(Fri.), 6/14(Tue.) (8 lectures)

※8 Project Practice Ⅱ, Ⅳ : Different for respective themes
※9 System Requirement Engineering : To be announced separately (8 lectures)
※10 Japanese Class for Beginners Ⅱ (2) is for students from abroad. Schedule : 4/15 (Fri.) , 4/22 (Fri.) , 5/6 (Fri.), 5/13 (Fri.), 5/20 (Fri.), 5/27 (Fri.), 6/3 (Fri.) , 6/10 (Fri.) (8 lectures)

☆ Detail of the schedule of the following intensive lectures will be announced separately.
Academic Volunteer Ⅰ / Ⅱ (Yutaka Arakawa)
Lecture of Information Security Management Literacy Ⅰ (Suguru Yamaguchi, Atsuo Inomata, Hiromitsu Takagi, Takashi Matsumoto, Testutaro Uehara)
Lecture of Information Security Management Literacy Ⅱ (Kazutoshi Fujikawa, Kazumasa Utashiro, Atsuo Inomata, Hisamichi Okamura, Tomohiko Yamakawa)
Exercise for Information Security PBL A (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Exercise for Information Security PBL B (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Exercise for Information Security PBL C (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda)
Exercise for Information Security PBL D (Youki Kadobayashi, Takeshi Okuda, Yoichi Shinoda, Shinsuke Miwa)
Exercise for Information Security PBL E (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda)
Exercise for Information Security PBL F (Atsuo Inomata, Takeshi Okuda, Hideaki Sone, Yuichi Hayashi, Naofumi Honma)
Exercise for Information Security PBL G (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Advanced Robot Development Theory I (Jun Takamatsu, Masahiro Yoshikawa)
Advanced Robot Development Theory II(Jun Takamatsu, Masahiro Yoshikawa, Akihiko Yamaguchi)
Advanced Robot Design (Jun Takamatsu, Masayuki Kanbara, Takamitsu Matsubara, Masahiro Yoshikawa)
Studio of Advanced IT Ⅰ / Ⅱ (Jun Takamatsu, Yasushi Tanaka, Toshinori Takai)
Global Entrepreneur Ⅰ / Ⅱ / Ⅲ / Ⅳ / Ⅴ

Quarter Ⅱ (Friday, June 3 – Monday, August 1)

(Classes are closed on June 22 (Wed.) due to medical checkup and on July 6–9 due to the 1st entrance examination for Master's course.
Classes in 1st–3rd periods on July 22nd (Fri.) are moved on August 1st (Mon.). Classes for Thursday are provided on July 25 (Mon.).)

	Mon.	Tue.	Wed.	Thu.	Fri.
1st period 9:20 | 10:50	Advanced Topics in Information Science Ⅰ/Ⅱ/Ⅲ/Ⅳ	＊Reconfigurable Computing [L1] Shinya Takamaeda, Tran Thi Hong	Advanced Topics in Information Science Ⅰ/Ⅱ/Ⅲ/Ⅳ	Theory of Computation Ⅰ [L1] Minoru Ito	＊Sequential Data Modeling [L1] Tomoki Toda, Graham Neubig, Sakriani Sakti
				＊Mobile Computing [L2] Naoki Shibata	Advanced Algorithm Design [L2] Fukuhito Oshita, Michiko Inoue
		Biomedical Media Informatics [L3] Yoshito Otake		Game Theory [L3] Masahiro Sasabe	System Requirement Engineering ※10 [L3] Toshinori Takai, Yasushi Tanaka, Masashi Katahira, Naoki Ishihama, Ryo Ujiie
2nd period 11:00 | 12:30	Advanced Topics in Information Science Ⅰ/Ⅱ/Ⅲ/Ⅳ	Pattern Recognition [L1] Norimichi Ukita	Advanced Topics in Information Science Ⅰ/Ⅱ/Ⅲ/Ⅳ	Wireless Communication Systems [L1] Minoru Okada, Takeshi Higashino, Yafei Hou	Digital Image Processing [L1] Naokazu Yokoya, Norihiko Kawai
				＊Theory of Computation Ⅱ [L2] Michiko Inoue, Fukuhito Oshita	＊Systems Control Ⅱ [L2] Kenji Sugimoto
				Mathematical Modeling [L3] Kazushi Ikeda, Hiroaki Sasaki	Software Design ※11 [L3] Hajimu Iida, Norihiro Yoshida
3rd period 13:30 | 15:00	Seminar Ⅰ/Ⅱ [L1,L2,L3] Supervisors		Seminar Ⅰ/Ⅱ [L1,L2,L3] Supervisors	Multivariate Analysis [L1] Kazushi Ikeda, Shigehiko Kanaya	
		Introduction to Stochastic Processes [L2] Shoji Kasahara			＊Advanced Scientific Writing [L2] David Sell
		＊Skills for English Presentation Ⅱ [L3] David Sell			Software Design ※11 [L3] Hajimu Iida, Norihiro Yoshida
4th period 15:10 | 16:40	Research Work / Theme Research	Philosophy of Science※12 [L2] Hisashi Nakao	Research Work / Theme Research		Philosophy of Science※12 [L2] Hisashi Nakao
		＊Japanese Culture ※6 [L3] Adarsh Bala Sharma			
		Introduction to Biological Science ※5 [BS Large Lecture Room] Hisaji Maki, etc.		Introductory Programming Course Ⅱ [A207] Kenichi Matsumoto, Hideaki Hata	Introduction to Biological Science ※5 [BS Large Lecture Room] Hisaji Maki, etc.
		Commentaries on Science and Technology ※13 [Millennium Hall] Faculty members in charge of respective themes and instructors outside the university		Project Practice Ⅱ, Ⅳ ※9 [Depends on the theme] Faculty members in charge of respective themes and instructors outside the university	Commentaries on Science and Technology ※13 [Millennium Hall] Faculty members in charge of respective themes and instructors outside the university
5th period 16:50 | 18:20	Research Work / Theme Research	Philosophy of Science ※12 [L2] Hisashi Nakao	Research Work / Theme Research		Philosophy of Science ※12 [L2] Hisashi Nakao
				Introductory Programming Course Ⅱ [A207] Kenichi Matsumoto, Hideaki Hata	
		Foundation of Materials Science ※8 [MS Large Lecture Room] Hiroyuki Katsuki, etc.		Project Practice Ⅱ, Ⅳ ※9 [Depends on the theme] Faculty members in charge of respective themes and instructors outside the university	Foundation of Materials Science ※8 [MS Large Lecture Room] Hiroyuki Katsuki, etc.

Remarks

＊:English subject
※5 Introduction to Biological Science : 5/13(Fri.), 5/17 (Tue.), 5/20(Fri.), 5/27(Fri.), 5/31(Tue.), 6/7(Tue.), 6/17(Fri.), 6/21(Tue.) (8 lectures)

※6 Japanese Culture, 4/12(Tue.), 4/19(Tue.), 4/23(Sat., Field trip 1), 4/26(Tue.), 5/7(Sat., Field trip 2), 5/10(Tue.), 5/17(Tue.), 5/24(Tue.), 5/31(Tue.), 6/7(Tue.), 6/14(Tue.), 6/21(Tue.), 6/28(Tue.), 7/5(Tue.), 7/12(Tue.), 7/19(Tue.) (16 lectures)
※8 Foundation of Materials Science : 5/17 (Tue.), 5/20(Fri.), 5/27(Fri.), 5/31(Tue.), 6/3(Fri.), 6/7(Tue.), 6/10(Fri.), 6/14(Tue.) (8 lectures)

※9 Project Practice Ⅱ, Ⅳ : Different for respective themes
※10 System Requirement Engineering : To be announced separately (8 lectures)

※11 Software Design: To be announced separately (8 lectures)

※12 Philosophy of Science: 7/19 (Tue.), 7/22 (Fri.), 7/26 (Tue.), 7/29 (Fri.) (4th & 5th periods, 8 lectures)
※13 Commentaries on Science and Technology: 6/3 (Fri.), 6/10 (Fri.), 6/14 (Tue.), 6/28 (Tue.), 7/1 (Fri.), 7/5 (Tue.), 7/12 (Tue.), 7/15 (Fri.) (8 lectures)
☆ Detail of the schedule of the following intensive lectures will be announced separately.
Academic Volunteer Ⅰ/Ⅱ (Yutaka Arakawa)
Lecture of Information Security Management Literacy Ⅰ (Suguru Yamaguchi, Atsuo Inomata, Hiromitsu Takagi, Takashi Matsumoto, Testutaro Uehara)
Lecture of Information Security Management Literacy Ⅱ (Kazutoshi Fujikawa, Kazumasa Utashiro, Atsuo Inomata, Hisamichi Okamura, Tomohiko Yamakawa)
Exercise for Information Security PBL A (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Exercise for Information Security PBL B (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Exercise for Information Security PBL C (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda)
Exercise for Information Security PBL D (Youki Kadobayashi, Takeshi Okuda, Yoichi Shinoda, Shinsuke Miwa)
Exercise for Information Security PBL E (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda)
Exercise for Information Security PBL F (Atsuo Inomata, Takeshi Okuda, Hideaki Sone, Yuichi Hayashi, Naofumi Honma)
Exercise for Information Security PBL G (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Advanced Robot Development Theory I (Jun Takamatsu, Masahiro Yoshikawa)
Advanced Robot Development Theory II(Jun Takamatsu, Masahiro Yoshikawa, Akihiko Yamaguchi)
Advanced Robot Design (Jun Takamatsu, Masayuki Kanbara, Takamitsu Matsubara, Masahiro Yoshikawa)
Studio of Advanced IT Ⅰ/Ⅱ (Jun Takamatsu, Yasushi Tanaka, Toshinori Takai)
Global Entrepreneur Ⅰ/Ⅱ/Ⅲ/Ⅳ/Ⅴ

QuarterⅢ (Tuesday, October 4– Wednesday, November 30)

(Classes are closed during October 11–12 due to the 2nd entrance examination for Master's course.
Classes for Thursday are provided on November 28 (Mon.). November 30 (Wed.) is for supplementary classes.)

	Mon.	Tue.	Wed.	Thu.	Fri.
1st period 9:20 | 10:50	Advanced Topics in Information Science Ⅰ / Ⅱ / Ⅲ / Ⅳ	Information Network Ⅱ [L1] Kazutoshi Fujikawa, Atsuo Inomata, Ismail Arai, Masatoshi Kakiuchi	Advanced Topics in Information Science Ⅰ / Ⅱ / Ⅲ / Ⅳ	Natural Language Processing [L1] Yuji Matsumoto, Hideki Kashioka, Hiroyuki Shindo	Information Network Ⅱ [L1] Kazutoshi Fujikawa, Atsuo Inomata, Ismail Arai, Masatoshi Kakiuchi
		＊Signal Detection Theory [L2] Minoru Okada, Takeshi Higashino, Yafei Hou		＊Coding Theory [L2] Yuichi Kaji	＊Computational Neuroscience [L2] Junichiro Yoshimoto, Tomoya Tamei, Jun Morimoto, Kenji Doya, Makoto Ito
		Computer Vision Ⅱ [L3] Yasuhiro Mukaigawa			Network Simulation [L3] Minoru Okada, Takeshi Higashino, Yafei Hou
2nd period 11:00 | 12:30	Advanced Topics in Information Science Ⅰ / Ⅱ / Ⅲ / Ⅳ	Speech Processing [L1] Satoshi Nakamura, Hiromichi Kawanami, Koichiro Yoshino, Tomoki Toda, Shinnosuke Takamichi	Advanced Topics in Information Science Ⅰ / Ⅱ / Ⅲ / Ⅳ	＊Robotics Ⅱ [L1] Tsukasa Ogasawara, Jun Takamatsu, Yoshio Matsumoto, Mitsunori Tada	Bio-Imaging [L1] Tadao Sugiura, Hidehiro Iida, Kazuhiro Koshino
		＊Ambient Intelligence [L2] Norihiro Hagita, Masayuki Kanbara		＊Information Security & Our Society [L2] Suguru Yamaguchi, Jun Murai	＊Computer Vision Ⅰ [L2] Tomokazu Sato, Yuta Nakashima
		Systems Biology Ⅱ [L3] Shigehiko Kanaya, MD. ALTAF-UL-AMIN			Theory of Advanced IT ※18 [L3] Hajimu Iida, Jun Takamatsu, Atsuo Inomata,Yasushi Tanaka , Toshinori Takai
3rd period 13:30 | 15:00	Seminar Ⅰ/ Ⅱ [L1,L2,L3] Supervisors	＊Intellectual Property Rights [L1] Kozo Kubo	Seminar Ⅰ/ Ⅱ [L1,L2,L3] Supervisors	＊Data Mining [L1] MD. ALTAF-UL-AMIN	＊Literature Search [L1] ＊To Be Determined
		Systems Control Ⅰ [L2] Takamitsu Matsubara		＊Methods of English Communication Ⅰ [L2] ＊To Be Determined	
				Algebraic Structures [L3] Kenji Maruo	Big Data Analytics [L3] Satoshi Nakamura, Shigehiko Kanaya, Yu Suzuki, Koichiro Yoshino, Michiaki Iwazume, Kunio Matui
4th period 15:10 | 16:40	Research Work / Theme Research		Research Work / Theme Research		＊Technology and Professional Ethics※19 [L1] Shushi Ueda
		＊Japanese Culture ※17 [L3] Adarsh Bala Sharma			
		Science Communication ※14 [Bio L12] Faculty members in charge		Exercise in Practical Software Development Ⅰ [A207] Hajimu Iida, Yasuhiro Watashiba, Shinya Takamaeda	Japanese Class for Beginners Ⅱ(1) ※16 [Bio L12] Masako Hashimoto
		Japanese Class for Beginners Ⅰ ※15 [Material F105] Mikiko Iwasaki, Noriko Kunii, Akiyo Kasai		Project Practice Ⅱ, Ⅳ ※9 [Depends on the theme] Faculty members in charge of respective themes and instructors outside the university	
5th period 16:50 | 18:20	Research Work / Theme Research		Research Work / Theme Research		＊Technology and Professional Ethics※19 [L1] Shushi Ueda
		Science Communication ※14 [BS Large Lecture Room] Faculty members in charge		Exercise in Practical Software Development Ⅰ [A207] Hajimu Iida, Yasuhiro Watashiba, Shinya Takamaeda	
		Japanese Class for Beginners Ⅰ ※15 [Material F105] Mikiko Iwasaki, Noriko Kunii, Akiyo Kasai		Project Practice Ⅱ, Ⅳ ※9 [Depends on the theme] Faculty members in charge of respective themes and instructors outside the university	

Remarks

＊:English subject
※9 Project Practice Ⅱ, Ⅳ : Different for respective themes
※14 Science Communication: 10/25 (Tue.), 11/1 (Tue.), 11/8 (Tue.), 11/15 (Tue.) (4th and 5th periods, 8 lectures)
※15 Japanese Class for Beginners Ⅰ is for students from abroad. Schedule: 10/18 (Tue.), 10/25 (Tue.), 11/1 (Tue.), 11/8 (Tue.), 11/15 (Tue.), 11/22 (Tue.), 11/29 (Tue.), 12/6 (Tue.) (4th and 5th periods, 16 lectures)
※16 Japanese Class for Beginners Ⅱ(1) is for students from abroad. Schedule: 10/14 (Fri.), 10/21 (Fri.), 10/28 (Fri.), 11/4 (Fri.), 11/11 (Fri.), 11/18 (Fri.), 11/25 (Fri.), 12/2 (Fri.) (8 lectures)
※17 Japanese Culture-Fall, Schedule: 10/4 (Tue.), 10/11 (Tue.), 10/15 (Sat., Field trip 1), 10/18 (Tue.), 10/22 (Sat., Field trip 2), 10/25 (Tue.), 11/1 (Tue.), 11/8 (Tue.), 11/15 (Tue.), 11/22 (Tue.), 11/29 (Tue.), 12/6 (Tue.), 12/13 (Tue.), 12/20 (Tue.), 1/10 (Tue.), 1/17 (Tue.) (16 lectures)

※18 Theory of Advanced IT: 8 lectures spanning in semsester Ⅲ&Ⅳ (Schedule detail will be announced separately)
※19 Technology and Professional Ethics: 10/14 (Fri.), 10/21 (Fri.), 10/28 (Fri.), 11/4(Fri.) (4th and 5th periods, 8 lectures)
☆ Detail of the schedule of the following intensive lectures will be announced separately.
Academic Volunteer Ⅰ / Ⅱ (Yutaka Arakawa)
Lecture of Information Security Management Literacy Ⅰ (Suguru Yamaguchi, Atsuo Inomata, Hiromitsu Takagi, Takashi Matsumoto, Testutaro Uehara)
Lecture of Information Security Management Literacy Ⅱ (Kazutoshi Fujikawa, Kazumasa Utashiro, Atsuo Inomata, Hisamichi Okamura, Tomohiko Yamakawa)
Exercise for Information Security PBL A (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Exercise for Information Security PBL B (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Exercise for Information Security PBL C (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda)
Exercise for Information Security PBL D (Youki Kadobayashi, Takeshi Okuda, Yoichi Shinoda, Shinsuke Miwa)
Exercise for Information Security PBL E (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda)
Exercise for Information Security PBL F (Atsuo Inomata, Takeshi Okuda, Hideaki Sone, Yuichi Hayashi, Naofumi Honma)
Exercise for Information Security PBL G (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Advanced Robot Development Theory I (Jun Takamatsu, Masahiro Yoshikawa)
Advanced Robot Development Theory II(Jun Takamatsu, Masahiro Yoshikawa, Akihiko Yamaguchi)
Advanced Robot Design (Jun Takamatsu, Masayuki Kanbara, Takamitsu Matsubara, Masahiro Yoshikawa)
Studio of Advanced IT Ⅰ / Ⅱ (Jun Takamatsu, Yasushi Tanaka, Toshinori Takai)
Global Entrepreneur Ⅰ / Ⅱ / Ⅲ / Ⅳ / Ⅴ

Quarter Ⅳ (Thursday, December 1–Tuesday, February 7)

(December 23 (Fri.)–January 3 (Tue.): Winter Shutdown. February 8 (Wed.)–10 (Fri.) are for supplementary classes.
Classes for Monday are provided on January 5th (Thu.).)

	Mon.	Tue.	Wed.	Thu.	Fri.
1st period 9:20 | 10:50	Advanced Topics in Information Science Ⅰ/Ⅱ/Ⅲ/Ⅳ	＊Advanced Cutting-edge Research Seminar Ⅱ/Ⅳ [L1,L2,L3] Tran Thi Hong, Manato Fujimoto, Doudou Fall, Sakriani Sakti, Graham Neubig, Yafei Hou, Yuta Nakashima, Futoshi Yokota, Naoaki Ono, Norihiko Kawai	Advanced Topics in Information Science Ⅰ/Ⅱ/Ⅲ/Ⅳ	＊Advanced Cutting-edge Research Seminar Ⅱ/Ⅳ [L1,L2,L3] Tran Thi Hong, Manato Fujimoto, Doudou Fall, Sakriani Sakti, Graham Neubig, Yafei Hou, Yuta Nakashima, Futoshi Yokota, Naoaki Ono, Norihiko Kawai	＊Virtual Systems Infrastructure [L1] Kohei Ichikawa, Yasuhiro Watashiba
2nd period 11:00 | 12:30	Advanced Topics in Information Science Ⅰ/Ⅱ/Ⅲ/Ⅳ	＊Human Computer Interaction [L1] Christian Sandor	Advanced Topics in Information Science Ⅰ/Ⅱ/Ⅲ/Ⅳ	Virtual Reality [L1] Masayuki Kanbara, Takafumi Taketomi	
				＊Information Security & Our Society [L2] Suguru Yamaguchi, Jun Murai	＊Medical Imaging Analysis [L2] Yoshinobu Sato
					Theory of Advanced IT ※18 [L3] Hajimu Iida, Jun Takamatsu, Atsuo Inomata, Yasushi Tanaka, Toshinori Takai
3rd period 13:30 | 15:00	Seminar Ⅰ/Ⅱ [L1,L2,L3] Supervisors	＊Digital Media [L2] ＊To Be Determined	Seminar Ⅰ/Ⅱ [L1,L2,L3] Supervisors	＊Methods of English Communication Ⅱ [L2] ＊To Be Determined	
					＊Intercultural Communication [L3] David Sell
4th period 15:10 | 16:40	Research Work / Theme Research	Research Work / Theme Research	Research Work / Theme Research		Research Work / Theme Research
		＊Japanese Culture ※17 [L3] Adarsh Bala Sharma			
		Japanese Class for Beginners Ⅰ ※15 [Material F105] Mikiko Iwasaki, Noriko Kunii, Akiyo Kasai		Exercise in Practical Software Development Ⅱ [A207] Kouhei Ichikawa, Yasuhiro Watashiba, Tomokazu Yoneda	Japanese Class for Beginners Ⅱ(1) ※16 [Bio L12] Masako Hashimoto
				Project Practice Ⅱ, Ⅳ ※9 [Depends on the theme] Faculty members in charge of respective themes and instructors outside the university	
5th period 16:50 | 18:20	Research Work / Theme Research	Research Work / Theme Research	Research Work / Theme Research	Exercise in Practical Software Development Ⅱ [A207] Kouhei Ichikawa, Yasuhiro Watashiba, Tomokazu Yoneda	Research Work / Theme Research
		Japanese Class for Beginners Ⅰ ※15 [Material F105] Mikiko Iwasaki, Noriko Kunii, Akiyo Kasai		Project Practice Ⅱ, Ⅳ ※9 [Depends on the theme] Faculty members in charge of respective themes and instructors outside the university	

Remarks

＊: English subject
※9 Project Practice Ⅱ, Ⅳ : Different for respective themes
※15 Japanese Class for Beginners Ⅰ is for students from abroad. Schedule: 10/18 (Tue.), 10/25 (Tue.), 11/1 (Tue.), 11/8 (Tue.), 11/15 (Tue.), 11/22 (Tue.), 11/29 (Tue.), 12/6 (Tue.) (4th and 5th periods, 16 lectures)
※16 Japanese Class for Beginners Ⅱ(1) is for students from abroad. Schedule: 10/14 (Fri.), 10/21 (Fri.), 10/28 (Fri.), 11/4 (Fri.), 11/11 (Fri.), 11/18 (Fri.), 11/25 (Fri.), 12/2 (Fri.) (8 lectures)
※17 Japanese Culture-Fall, Schedule: 10/4 (Tue.), 10/11 (Tue.), 10/15 (Sat., Field trip 1), 10/18 (Tue.), 10/22 (Sat., Field trip 2), 10/25 (Tue.), 11/1 (Tue.), 11/8 (Tue.), 11/15 (Tue.), 11/22 (Tue.), 11/29 (Tue.), 12/6 (Tue.), 12/13 (Tue.), 12/20 (Tue.), 1/10 (Tue.), 1/17 (Tue.) (16 lectures)

※18 Theory of Advanced IT: 8 lectures spanning in semsester Ⅲ&Ⅳ (Schedule detail will be announced separately)
☆ Detail of the schedule of the following intensive lectures will be announced separately.
Academic Volunteer Ⅰ/Ⅱ (Yutaka Arakawa)
Lecture of Information Security Management Literacy Ⅰ (Suguru Yamaguchi, Atsuo Inomata, Hiromitsu Takagi, Takashi Matsumoto, Testutaro Uehara)
Lecture of Information Security Management Literacy Ⅱ (Kazutoshi Fujikawa, Kazumasa Utashiro, Atsuo Inomata, Hisamichi Okamura, Tomohiko Yamakawa)
Exercise for Information Security PBL A (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Exercise for Information Security PBL B (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Exercise for Information Security PBL C (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda)
Exercise for Information Security PBL D (Youki Kadobayashi, Takeshi Okuda, Yoichi Shinoda, Shinsuke Miwa)
Exercise for Information Security PBL E (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda)
Exercise for Information Security PBL F (Atsuo Inomata, Takeshi Okuda, Hideaki Sone, Yuichi Hayashi, Naofumi Honma)
Exercise for Information Security PBL G (Kazutoshi Fujikawa, Atsuo Inomata, Takeshi Okuda, Shingo Okamura)
Advanced Robot Development Theory I (Jun Takamatsu, Masahiro Yoshikawa)
Advanced Robot Development Theory II(Jun Takamatsu, Masahiro Yoshikawa, Akihiko Yamaguchi)
Advanced Robot Design (Jun Takamatsu, Masayuki Kanbara, Takamitsu Matsubara, Masahiro Yoshikawa)
Studio of Advanced IT Ⅰ/Ⅱ (Jun Takamatsu, Yasushi Tanaka, Toshinori Takai)
Global Entrepreneur Ⅰ/Ⅱ/Ⅲ/Ⅳ/Ⅴ

VII Syllabus, etc.

How to access the electronic syllabus

The syllabus of the Graduate School of Information Science is posted on its website.
To view the syllabus, either visit (i) the URL below, or (ii) NAIST homepage → Website of Graduate School of Information Science → Education → e-Syllabus.

Electronic syllabus: http://is-education.naist.jp/

Evaluation of academic performance

1. After their academic performance has been evaluated, students will be informed of their grades within three weeks after the completion of lectures via the website and the bulletin board, etc.
Grades can be checked at the automatic certificate issuing machine on the first floor of the NAIST Library.
2. In the event of any doubt about grades, students are required to inform the faculty members in charge of the lectures within one month from the date of receiving the grades.
To inform the faculty members in charge, please check the office hours in the syllabus.

English education

English learning programs at the Graduate School of Information Science

English proficiency is essential for participation in international activities in the field of information science. The Graduate School of Information Science supports students' advancement in English ability through programs they can access on their own and subjects in the curriculum. The available programs include TOEIC tests (twice a year), ALC NetAcademy 2 (an online system for learning English), and materials in the form of English CD-ROMs and journals.

Skills for English Presentation I and Methods of English Communication I, II are designed to improve oral communication skills. English Writing Skills and Skills for English Presentation II are designed to obtain writing skills for research papers and the various skills required for professional presentations in English. In Project Management for Research, Literature Search and Digital Media, students can learn advanced skills in scientific English. Students can also take Scientific English provided by Graduate School of Biological Sciences.

English proficiency is crucial in the field of information science, and, students are strongly encouraged to take full advantage of the programs offered.

Many subjects in the curriculum are provided in English. Students are encouraged to take these subjects. Opportunities are also available to attend lectures given by researchers from abroad and discussions in English at the various laboratories for training in asking questions and responding appropriately on specialized topics.

Toward Cultivating Globally-Aware Human Resources

The Nara Institute of Science and Technology (NAIST) was selected for the Top Global University Project by the Ministry of Education, Culture, Sports, Science and Technology in September 2014. We promote study abroad programs in cooperation with 80 academic exchange partner institutions in the world including the University of California, Davis. We also promote participation in overseas internship programs and international workshops.

The master's program aims to foster students' abilities to read academic papers and understand lectures and seminars in English. The doctoral program prepares students for giving presentations in English and equips them with the ability to answer questions and handle discussion and challenges. Each graduate school hosts TOEIC tests as well.

Two hundred and seven students from 37 countries are studying at NAIST. We offer them an environment where international students from different backgrounds and cultures study with Japanese students so that many of them grow to be globally-aware human resources who have an international mindset, practical communications skills, excellent techniques in research, and areas of expertise.

[Scholarships for Studying Abroad]

Many of the students at NAIST use the following scholarships to study abroad. While students can apply to some of the programs individually, some are offered as part of graduate school programs. Please consult your supervisor or the International Affairs Division if you are considering studying abroad.

1. Support for studying abroad by the Japan Student Services Organization Scholarship (JASSO)
   http://www.jasso.go.jp/scholarship/kaigairyugaku_sienseido.html
2. Tobitate! Study Abroad Program JAPAN
   http://www.tobitate.mext.go.jp/
3. Lists of scholarships compiled by JASSO.
   http://ryugaku.jasso.go.jp/scholarship/

[On-campus procedures before studying abroad]

In order to study or receive instruction at an academic or research institution overseas, a Study Abroad Request form must be submitted to and approved by the Faculty Council, so please submit this form along with the Course Registration Request for Special Auditing Dispatchment Student or the Application for Special Research Dispatchment Student to the International Affairs Division at least two months before your planned departure. Even if the study abroad program you have chosen does not require a Study Abroad Request form, you must submit an Overseas Travel Notification for emergencies so that your safety can be confirmed in the event of natural disasters, terrorist acts, etc. Please read the "Procedures for Studying Abroad" p.66 for details.

[Visas]

When you decide to travel abroad, please make sure to investigate where you are traveling and whether or not you need a visa to travel there. Also, leave enough time for whatever paperwork or procedures that may be necessary.

Regardless of the length of your stay, you may have to apply for a visa depending on the purpose of your visit. For example, to study in the US an F-1 visa is necessary and students must start preparing for their study abroad (preparing paperwork, obtaining forms and certificates, obtaining a passport, completing an interview, etc.) at least two months prior to their departure date. In France, online registration and application is possible and a visa interview is waived if you will be an exchange student. In this way, paperwork, requirements, and application processes may vary depending on your destination, program details and the agreements related to your studies, so it is necessary to start collecting information from the institution you will be attending and from the appropriate diplomatic agency in advance.

Depending on your destination, there may be punitive measures taken or you may be denied entrance to the country if you have not completed the proper visa application process. If you have any questions concerning the visa process or necessary paperwork, feel free to consult with the International Affairs Division staff.

[Safety and security information before traveling overseas]

When you travel abroad, please make sure that the country is safe to visit by checking the safety and security information for the destination country on the Foreign Ministry's website (overseas safety page).

The Foreign Ministry encourages Japanese nationals who are planning to stay abroad longer than 3 months to submit a Resident Report, and Japanese nationals who are planning to stay less than 3 months to register at 'Tabi-regi', the registration system for Japanese travelers abroad.
Please submit a notice or register with the Foreign Ministry when you go abroad in addition to the on-campus administrative procedures.

Please see the Foreign Ministry's website for details.

Procedures for study/travel abroad(Proposal)

	Official study abroad※		Travel notification requiring Travel Request	
Types of dispatchment abroad	Course(s) or instruction at an overseas graduate school or research institution	Double degree program	Educational programs not included in 'Official study abroad' offered in cooperation with NAIST at an overseas graduate school or research institution	Conference/symposium/seminar/etc. attendance
Details	Attending of course(s) or receiving instruction at overseas graduate schools or research institutions	Studies at overseas universities in accordance with double degree program regulations	・Education at an overseas graduate schools or research institutions ・Internship at an overseas graduate schools or research institutions (Held as a NAIST educational program)	Attending or presenting at a Conference/symposium/seminar/etc.
Duration	In principle, 3 months or more		In principle, less than 3 months	
Necessary paperwork	・**Study Abroad Request** ・**Course Registration Request for Special Auditing Dispatchment Student** (For students who will attend classes) ・**Application for Special Research Dispatchment Student** (For students who will receive instruction)	**Study Abroad Request**	**Overseas Travel Notification**	**Overseas Travel Notification**
Statistical status	Study abroad student	Study abroad student	Study abroad student	—
University overseas travel insurance	Eligible	Eligible	Eligible	Eligible
Student personal accident Insurance◆	Eligible	Eligible	Eligible	Eligible

※Article 48 of the Student Regulations states that a student wanting to study abroad at an overseas graduate school or research institution must receive the President's permission.

◆Personal Accident Insurance for Students Pursuing Education and Research (PAS)

For private travel
1: If you will leave your residence for a period of time for private travel , please give your emergency contact information to your family, relatives, friends, research lab, etc.
2: If you will travel overseas privately for three months or more, you must submit the Leave of Absence Request and Overseas Travel Notification forms at least two weeks before departure.

Ⅷ List of subjects and faculty members in charge for other Graduate Schools of NAIST

List of subjects and faculty members in charge for the Graduate School of Biological Sciences in academic year 2016

Master's Course

Category	Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
Common	Commentaries on Science and Technology	000103	1	Faculty members in charge	Autumn semester in first academic year	15	Common subujects for all graduate schools
	Computer System	000101	1	Y.Nakashima	Spring semester	15	Common subujects for all graduate schools
	Algorithm	000102	1	Inoue etc.	Spring semester	15	Common subujects for all graduate schools
	Foundation of Materials Science	000301	1	Katsuki,Aratani	Spring semester	15	Common subujects for all graduate schools
	Science Communication	000201	1	Bessho etc.	Autumn semester	15	Common subujects for all graduate schools
	Philosophy of Science	000104	1	(Nakao)	Spring semester	15	Common subujects for all graduate schools
	Technology and Professional Ethics	000105	1	(Ueda)	Autumn semester	15	Common subujects for all graduate schools
	Introduction to Biological Sciences	000202	1	H.Maki etc.	Spring semester	15	Common subujects for all graduate schools
General	Global Entrepreneur Ⅰ	111011	1	Faculty members in charge	Intensiv lectures	15	Subject in Information Science
	Global Entrepreneur Ⅱ	111012	1	Faculty members in charge	Intensiv lectures	15	Subject in Information Science
	Global Entrepreneur Ⅲ	112013	1	Faculty members in charge	Intensiv lectures	40	Subject in Information Science
	Global Entrepreneur Ⅳ	112014	1	Faculty members in charge	Intensiv lectures	15	Subject in Information Science
	Global Entrepreneur Ⅴ	112015	1	Faculty members in charge	Intensiv lectures	25	Subject in Information Science
	Professional English I	210001	1	McAleese	Spring semester in first academic year	15	
	Professional English II	210002	1	McAleese	Autumn semester in first academic year	15	
	Professional English III	210003	1	McAleese	Autumn semester in second academic year	15	
	Communication Strategies	210004	1	McAleese	Autumn semester	15	
	Communication Quality through Phonology	210005	1	McAleese	Spring semester	15	
	Logic in Scientific Discovery	210006	1	S.Maki	Autumn semester	15	
	Social Life Science	210007	1	Bessho	First academic year	15	
	Advanced Genome Science and Technology	210008	1	Bessho	First academic year	15	
Basic	Introduction of Current Biology	220001	1	Takayama etc.	Spring semester in first academic year	24	
	Practical Biology for Advanced ScienceI	220002	1	Akiyama etc.	Spring semester in first academic year	15	
	Practical Biology for Advanced ScienceII	220003	1	Kimata etc.	Spring semester in first academic year	15	
	Basic Bioscience Seminar I	220004	1	Demura etc.	Spring semester in first academic year	15	
	Basic Bioscience Seminar II	220005	1	Komai etc.	Spring semester in first academic year	15	
	Microbial Biotechnology	220006	1	Takagi etc.	Spring semester in first academic year	15	
	Environmental Plant Science	220007	1	Nakajima etc.	Spring semester in first academic year	15	
	Biomedical Sciences	220008	1	Kato etc.	Spring semester in first academic year	15	
	Bioinformatics	220009	1	Bessho etc.	Spring semester in first academic year	15	
	Practical Bioscience Seminar I	220010	1	Kohno etc.	Spring semester in first academic year	15	
	Practical Bioscience Seminar II	220011	1	H.Maki etc.	First academic year	15	
	Bioexpart Seminar for Research Project	220012	1	Bessho etc.	Autumn semester in first academic year	15	
	Frontier Bioscience Seminar for Research Project	220013	1	Demura etc.	Autumn semester in first academic year	15	
Special	Advanced Lecture in Developmental Biology	230001	1	Bessho etc.	Spring semester	15	
	Bio-industrial Technology	230002	1	Takagi etc.	Spring semester in first academic year	15	
	Practice in Bio-industrial Technology	230003	1	Takagi etc.	Spring semester in first academic year	15	N/A in this academic year
	Topics in Animal Science	230004	1	Sasai etc.	First and Second academic year	15	
	Frontiers of Plant Sciences	230005	1	Hasimoto etc.	First and Second academic year	15	
	Advanced Systems Biology	230006	1	Hakoshima etc.	First and Second academic year	15	
	Lecture of intellectual property right	230007	1	Kubo	Autumn semester	15	
	Topics in Bioinformatics	230008	1	Bessho	Autumn semester	15	N/A in this academic year
	Bio-Imaging	130037	1	Sugiura etc.	Autumn semester	15	Subject in Information Science
	Systems Biology II	130039	1	Kanaya etc.	Autumn semester	15	Subject in Information Science
	International Forefront in Bioscience I	230011	1	S.Maki etc.	First and Second academic year	15	
	International Forefront in Bioscience II	230012	1	S.Maki etc.	First and Second academic year	15	
	Frontier Bioscience Tutorial	230013	1	Demura etc.	Second academic year	15	

Category	Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
Seminar I		240001	2	Faculty members of assigned laboratory	Spring semester in first academic year	60	
Seminar II		240002	2	Faculty members of assigned laboratory	Autumn semester in first academic year	60	
Seminar III		240003	2	Faculty members of assigned laboratory	Spring semester in second academic year	60	
Seminar IV		240004	2	Faculty members of assigned laboratory	Autumn semester in second academic year	60	
Research Experiment I		240005	3	Faculty members of assigned laboratory	Spring semester in first academic year	90	
Research Experiment II		240006	3	Faculty members of assigned laboratory	Autumn semester in first academic year	90	
Research Experiment III		240007	3	Faculty members of assigned laboratory	Spring semester in second academic year	90	
Research Experiment IV		240008	3	Faculty members of assigned laboratory	Autumn semester in second academic year	90	
Thesis		250001	2	Faculty members of assigned laboratory	First and Second academic year		
Rsearch on Biological Subjects I		240009	2	Faculty members of assigned laboratory	Spring semester in first academic year	60	
Research on Biological Subjects II		240010	2	Faculty members of assigned laboratory	Autumn semester in first academic year	60	
Research on Biological Subjects III		240011	2	Faculty members of assigned laboratory	Spring semester in second academic year	60	
Research on Biological Subjects IV		240012	2	Faculty members of assigned laboratory	Autumn semester in second academic year	60	
Project Report		250002	2	Faculty members of assigned laboratory	First and Second academic year		

Lectures in charge (shown in parentheses) are part-time lectures

List of subjects and faculty members in charge for the Graduate School of Biological Sciences in academic year 2016

International program for master course

Category	Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
Common	Japanese Class for Beginners I	000303	2	(Iwasaki etc.)	Autumn semester in first academic year	30	Common subjects for all graduate schools
	Japanese Class for Beginners II (1)	000203	1	(Hashimoto)	Autumn semester in first academic year	15	Common subjects for all graduate schools
	Japanese Class for Beginners II (2)	000204	1	(Hashimoto)	Spring semester in second academic year	15	Common subjects for all graduate schools
	Japanese Class for Beginners III (1)	-	1		Second academic year	15	N/A in this academic year Common subjects for all graduate schools
	Japanese Class for Beginners III (2)	-	1		Second academic year	15	N/A in this academic year Common subjects for all graduate schools
	Japanese Culture	000106	2	(Adarsh)	First academic year	30	Class is open twice in this academic year Common subjects for all graduate schools
	Technology and Professional Ethics	000105	1	(Ueda)	Autumn semester in first academic year	15	Japanse class in this academic year Common subjects for all graduate schools
General	Professional English I	210301	1	McAleese	Spring semester in first academic year	15	
	Professional English II	210302	1	McAleese	Autumn semester in first academic year	15	
	Professional English III	210303	1	McAleese	Autumn semester in second academic year	15	
	Communication Strategies	210304	1	McAleese	Autumn semester	15	
	Communication Quality through Phonology	210305	1	McAleese	Spring semester	15	
	Logic in Scientific Discovery	210306	1	S.Maki	Autumn semester	15	
Basic	Molecular Cell Biology	220301	1	H.Maki etc.	First academic year	15	
	Advanced Topics in Bioscience	220302	1	Takagi etc.	First academic year	15	
	Laboratory Rotation I	220303	1	Nakajima etc.	First academic year	15	
	Laboratory Rotation II	220304	1	Nakajima etc.	First academic year	15	
	Literature in Bioscience Research I	220305	1	Bessho etc.	First academic year	15	
	Literature in Bioscience Research II	220306	1	Shiozaki etc.	First academic year	15	
	Research Presentation Forum	220307	1	Bessho etc.	Second academic year	15	
Special	International Forefront in Bioscience I	230301	1	S.Maki etc.	First and Second academic year	15	
	International Forefront in Bioscience II	230302	1	S.Maki etc.	First and Second academic year	15	
	Bioscience Colloquium	230303	1	Demura etc.	First and Second academic year	15	
	UCD Online Seminar	230304	1	Nakajima etc.	First and Second academic year	15	
	Systems Biology I	130038	1	Kanaya etc.	Spring semester	15	Subject in Information Science
	Bioresource Research Proposal	230305	1	Demura etc.	Second academic year	15	
Seminar I		240301	2	Faculty members of assigned laboratory	Spring semester in first academic year	30	
Seminar II		240302	2	Faculty members of assigned laboratory	Autumn semester in first academic year	30	
Seminar III		240303	2	Faculty members of assigned laboratory	Spring semester in second academic year	30	
Seminar IV		240304	2	Faculty members of assigned laboratory	Autumn semester in second academic year	30	
Research Experiment I		240305	3	Faculty members of assigned laboratory	Spring semester in first academic year	90	
Research Experiment II		240306	3	Faculty members of assigned laboratory	Autumn semester in first academic year	90	
Research Experiment III		240307	3	Faculty members of assigned laboratory	Spring semester in second academic year	90	
Research Experiment IV		240308	3	Faculty members of assigned laboratory	Autumn semester in second academic year	90	
Thesis		250301	2	Faculty members of assigned laboratory			

Lectures in charge (shown in parentheses) are part-time lectures

Class period is designed for students who enroll in April

List of subjects and faculty members in charge for the Graduate School of Biological Sciences in academic year 2016

Doctoral course

Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
Research Project Design	260001	1	Advisory committee	First academic year	15	
Overseas Internship I	260002	3	S.Maki	Autumn semester in first academic year	45	
Overseas Internship II	260003	3	Shiozaki etc.	Each academic year	45	
International Bio-Seminar I	260004	1	S.Maki etc.	Each academic year	15	
International Bio-Seminar II	260005	1	S.Maki etc.	Each academic year	15	
International Bio-Seminar III	260006	1	S.Maki etc.	Each academic year	15	
International Bio-Seminar IV	260007	1	S.Maki etc.	Each academic year	15	
International Bio-Seminar V	260008	1	S.Maki etc.	Each academic year	15	
International Bio-Seminar VI	260009	1	S.Maki etc.	Each academic year	15	
Research Project Presentation	260010	1	S.Maki etc.	Second academic year	15	
International Student Workshop	260011	1	S.Maki etc.	Second academic year	15	
UCD Research Retreat	260012	1	Shiozaki etc.	Third academic year	15	
Communication Strategies	260013	1	McAleese	Autumn semester	15	
Communication Quality through Phonology	260014	1	McAleese	Spring semester	15	
Professional English I	260015	1	McAleese	Spring semester	15	
Professional English II	260016	1	McAleese	Autumn semester	15	
Professional English III	260017	1	McAleese	Autumn semester	15	
Responsible Conduct of Research	260018	1			15	N/A in this academic year
UCD Online Seminar	260019	1	Nakajima etc.	Each academic year	15	
Research Experiment Ⅰ	270001	6	Advisory committee	First academic year	180	
Research Experiment Ⅱ	270002	6	Advisory committee	Second academic year	180	
Research Experiment Ⅲ	270003	6	Advisory committee	Third academic year	180	

List of subjects and faculty members in charge for the Graduate School of Materials Science in academic year 2016

Master's Course

Category	Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
Common Subjects	Computer System	000101	1	Nakashima	April	15	Common Subjects for All Graduate Schools
	Algorithm	000102	1	Inoue(others)	April-May	15	Common Subjects for All Graduate Schools
	Introduction to Biological Science	000202	1	Maki(others)	May-June	15	Common Subjects for All Graduate Schools
	Introduction to Materials Science	000301	1	Katsuki・Aratani	May-June	15	Common Subjects for All Graduate Schools
	Commentaries on Science and Technology	000103	1	Faculty members in charge	Jun-July	15	Common Subjects for All Graduate Schools
	Philosophy of Science	000104	1	(Nakao)	July	15	Common Subjects for All Graduate Schools
	Technology and Professional Ethics	000302	1	(Okamoto・Mitsui)	June-September	15	Common Subjects for All Graduate Schools
	Science Communication	000201	1	(Bessho・Others)	October-November	15	Common Subjects for All Graduate Schools
General Subjects	Mathematical Analyses for Materials Science	311001	1	Ishizumi・Tomita・Takeda・Noda・Uenuma・Fujii・Nagao・Yamazaki	April	15	
	Materials Science English I	311002	1	McDowell・(Nakayama)	May-July	15	
	Materials Science English IIA	312003	1	McDowell	October	15	If credit is received for this subject, students may not earn credits in Material Science English IIB (doctoral program).
	Materials Science English IIIA	313004	1	McDowell	November-December	15	If credit is received for this subject, students may not earn credits in Material Science English IIIB (doctoral program).
	Science & Technology Policy and Intellectual Property	310006	1	Kubo・ (Ohtake・Matsuo)	July	15	
	Science Literacy	310005	1	Kikuchi・Kawai・Yamada	Autumn semester	15	
	Global Entrepreneur I	111011	1	Faculty members in charge	Intensive lectures	15	Subject in Information Science
	Global Entrepreneur II	111012	1	Faculty members in charge	Intensive lectures	15	Subject in Information Science
	Global Entrepreneur III	112013	1	Faculty members in charge	Intensive lectures	15	Subject in Information Science
	Global Entrepreneur IV	112014	1	Faculty members in charge	Intensive lectures	15	Subject in Information Science
	Global Entrepreneur V	112015	1	Faculty members in charge	Intensive lectures	15	Subject in Information Science

Category	Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
Basic Subjects	Opto-Nano Science I	320001	1	Faculty members of respective laboratories	April	15	
	Opto-Nano Science II	320002	1	Faculty members of respective laboratories	April	15	
	Opto-Nano Science Core I	321103	1	Nakamura・Hattori・Kobayashi・Suzuki・Jujo・Katayama	April	15	
	Opto-Nano Science Core II	321104	1	Hosokawa・Hattori・Hosoito・Tanimoto・Okada	April-May	15	
	Opto-Nano Science Core III	321305	1	Yanagi・Kawai・Kamikubo Nishiyama・Yamanaka・Nonoguchi	April	15	
	Opto-Nano Science Core IV	321306	1	Yanagi・Yanagida Yasuhara・Tahara	April-May	15	
	Solid State Physics I	321107	1	(EC)Nakamura・Hosokawa・Matsui (AC)Daimon・Hattori・Hosoito	May	15	
	Solid State Physics II	321108	1	(EC)Tokuda・Matsui (AC)Daimon・Katsuki・Hosoito	May-June	15	
	Organic Chemistry I	321309	1	(EC)Tanihara・Morimoto・Ando (AC)Fujiki・Hirota・ Nakashima	May	15	
	Physical Chemistry and Biochemistry II	321310	1	(EC)Hirota・Hosokawa・Matsuo (AC)Kakiuchi・Kikuchi・Nakashima	May-June	15	
	Advanced Materials Science I	321111	1	(EC)Nakamura・Hosokawa・Matsui (AC)Daimon・Hattori・Hosoito	May	15	
	Advanced Materials Science II	321312	1	(EC)Tanihara・Morimoto・Ando (AC)Fujiki・Hirota・ Nakashima	May	15	
	Advanced Materials Science III	321113	1	(EC)Tokuda・Matsui (AC)Daimon・Katsuki・Hosoito	May-June	15	
	Advanced Materials Science IV	321314	1	(EC)Hirota・Hosokawa・Matsuo (AC)Kakiuchi・Kikuchi・Nakashima	May-June	15	
	Modern Quantum Mechanics	321115	1	Yanagida・Kawaguchi	June-July	15	
	Advanced Semiconductor Engineering	321216	1	Uraoka・Ishikawa	June-July	15	
	Advanced Optoelectronics	321217	1	Ohta	June-July	15	
	Advance Electronics Materials Engineering	321218	1	Uraoka・Ishikawa	June-July	15	
	Modern Organic Chemistry	321319	1	Yamada・Morimoto	June-July	15	
	Advanced Polymer Chemistry	321320	1	Fujiki・Ando	June-July	15	
	Modern Inorganic Chemistry	321321	1	Matsuo・(Yano)	June-July	15	
	Advanced Biochemistry	321622	1	Tanihara・Kamikubo	June-July	15	

Category	Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
Specialized Subjects	Optical and Magnetic Properties of Matter Special	332101	1	Yanagi・Hosokawa・Katsuki・Hosoito	September-October	15	
	Electronic Properties and Atmic Structures of Solid and Surfaces Special	332102	1	Daimon・Yanagida・Hattori・Matsui	September-October	15	
	Photonics Special	332203	1	Ohta・Tokuda	September-October	15	
	Information Device Special	332204	1	Uraoka・Nakamura・Ishikawa	September-October	15	
	Molecular Photoscience Special	332305	1	Kawai・Yamada・Nakashima・Aratani	September-October	15	
	Advanced Organic Reactions and Stereochemistry Special	332306	1	Fujiki・Morimoto・Tanimoto・Nishiyama	September-October	15	
	Biofunctional Materials Special	332607	1	Kikuchi・Ando・Yasuhara・Tahara・Terada	September-October	15	
	Biomaterials Science Special	332608	1	Hirota・Kamikubo・Matsuo	September-October	15	
	Advanced Industrial Science and Technology Speical	332009	1	Faculty members of collaborative laboratories	September-October	15	
	Materials Science Special I	332110	1	(Mizutani・Tachikawa)	Autumn semester	15	
	Materials Science Special II	332211	1	(Nanto)	Autumn semester	15	
	Materials Science Special III	332312	1	(Nakano・Kamigaito)	Autumn semester	15	
	Materials Science Special IV	332613	1	(Yamaguchi・Odaka)	Autumn semester	15	
Experiments in Materials Science		340001	2	Faculty members of assigned laboratory	April-May	60	
Seminar A		340002	1	Faculty members of assigned laboratory		15	
Seminar B		340003	2	Faculty members of assigned laboratory		30	
Interdisciplinary Seminar A		340004	1	Faculty members		15	
Interdisciplinary Seminar B		340005	2	Faculty members		30	
Research Thesis		350001	6	Faculty members of assigned laboratory			
Specialized Research on Materials Science		350002	5	Faculty members of assigned laboratory			
Research on Materials Science		350003	4	Faculty members of assigned laboratory			

Lecturers in charge (shown in parentheses) are part-time instructors
Note: The detailed schedule will be released at a later date.

List of subjects and faculty members in charge for the Graduate School of Materials Science in academic year 2016

Master's Course（i course）

Category	Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
CommonSubjects	Technology and Professional Ethics (i)	000105	1		Autumn semester in first academic year	15	N/A in this academic year Common Subjects for All Graduate Schools
	Japanese Class for Beginners Ⅰ (i)	000303	2	(Iwasaki etc.)	Autumn semester in first academic year	30	Common Subjects for All Graduate Schools
	Japanese Class for Beginners Ⅱ (1) (i)	000203	1	(Hashimoto)	Autumn semester in first academic year	15	Common Subjects for All Graduate Schools
	Japanese Class for Beginners Ⅱ (2) (i)	000204	1	(Hashimoto)	Spring semester in second academic year	15	Common Subjects for All Graduate Schools
	Japanese Class for Beginners Ⅲ (1) (i)	–	1		Second academic year	15	N/A in this academic year Common Subjects for All Graduate Schools
	Japanese Class for Beginners Ⅲ (2) (i)	–	1		Second academic year	15	N/A in this academic year Common Subjects for All Graduate Schools
	Japanese Culture (i)	000106	2	(Adarsh)	First academic year	30	Common Subjects for All Graduate Schools
General Subjects	Mathematical Analysis for Materials Science (i)	311051	1	Ishizumi・Tomita・Takeda・Noda・Uenuma・Fujii・Nagao・Yamazaki	Autumn semester	15	
	Materials Science English Ⅰ (i)	311052	1	McDowell	Autumn semester	15	
	Materials Science English Ⅱ (i)	312053	1	McDowell	Autumn semester	15	
	Materials Science English Ⅲ (i)	313054	1	McDowell	Autumn semester	15	
	Science Literacy (i)	310055	1	Faculty members of assigned laboratory	Autumn semester	15	
	Intellectual Property Rights (i)	110010	1	Kubo	Autumn semester	15	"Intellectual Property Rights" provided by Information Science
	Intercultural Communication (i)	110009	1	(Sell)	Autumn semester	15	"Intercultural Communication" provided by Information Science
Basic Subjects	Opto-Nano Science Ⅰ (i)	320051	1	Faculty members of respective courses	Autumn semester	15	
	Opto-Nano Science Ⅱ (i)	320052	1	Faculty members of respective courses	Autumn semester	15	
	Photon and Condensed Matters Ⅰ (i)	321153	1	Hosokawa・Jujo	Autumn semester	15	
	Photon and Condensed Matters Ⅱ (i)	321154	1	Ishizumi	Autumn semester	15	
	Photon and Molecules Ⅰ (i)	321355	1	Kamikubo・Yamazaki	Autumn semester	15	
	Photon and Molecules Ⅱ (i)	321356	1	Suzuki	Autumn semester	15	
Specialized Subjects	Quantum Molecular Science (i)	332151	1	Yanagi・Katsuki	Autumn semester	15	
	Surface Science (i)	332152	1	Daimon・Hattori・Takeda・Taguchi	Autumn semester	15	
	Advanced Photonic Devices (i)	332253	1	Ohta・Tokuda	Autumn semester	15	
	Information Device Science (i)	332254	1	Uraoka ・ Ishikawa	Autumn semester	15	
	Technology for Advanced Measurement(i)	332255	1	Yanagida・Nakamura・Kawaguchi・Okada	Autumn semester	15	
	Electronic and Magnetic Structure (i)	332156	1	Hosoito・Matsui	Autumn semester	15	
	Synthetic Organic Chemistry (i)	332357	1	Morimoto・Tanimoto・Nishiyama・(Mizuno)	Autumn semester	15	
	Biomolecular Chemistry (i)	332658	1	Hirota・Matsuo	Autumn semester	15	

Category	Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
Specialized Subjects	Advanced Biomaterials (i)	332659	1	Tanihara・Ando・Terada・Kobayashi	Autumn semester	15	
	Photochemical Materials (i)	332360	1	Kawai・Nakashima	Autumn semester	15	
	Organic Functional Materials (i)	332361	1	Yamada・Aratani	Autumn semester	15	
	Advanced Polymers and Molecular Assemblies (i)	332362	1	Fujiki・Kikuchi	Autumn semester	15	
	Materials Science Special Ⅰ (i)	332063	1	Chair of Curriculum Committee	Autumn semester	15	
	Materials Science Special Ⅱ (i)	332064	1	Chair of Curriculum Committee	Autumn semester	15	
Experiments in Materials Science (i)		340051	3	Faculty members of assigned laboratory	Autumn semester	90	
Seminar (i)		340052	2	Faculty members of assigned laboratory		30	
Interdisciplinary Seminar (i)		340053	2	Faculty members		30	
Research Thesis (i)		350051	6	Faculty members of assigned laboratory			

Lecturers in charge (shown in parentheses) are part-time instructors
Note: The detailed schedule will be released at a later date.

List of subjects and faculty members in charge for the Graduate School of Materials Science in academic year 2016

Doctoral Course

Category	Subject	Subject Number	Number of credits	Lecturer	Class period	Total number of classes	Remarks
Internationalization subjects	Materials Science English IIB	362001	1	McDowell	October	15	If credit is received for this subject, students may not earn credits in Material Science English IIA (master's program).
	Materials Science English IIIB	363002	1	McDowell	November-December	15	If credit is received for this subject, students may not earn credits in Material Science English IIIA (master's program).
	Practical English for Materials Science	363003	2	Chair of Curriculum Committee	January	30	
	Science Literacy (Advanced Course I)	360004	1	Faculty members of assigned laboratory	One year	15	
	Science Literacy (Advanced Course II)	360005	1	Faculty members of assigned laboratory	One year	15	
	International Internship	360006	2	Chair of Curriculum Committee	One year	30	
	Interdisciplinary Internship	360007	1	Faculty members of assigned laboratory	One year	15	
	Opto-Nano Science Special Lectures	360008	1	Chair of Curriculum Committee	One year	15	
Interdisciplinary subjects	Interdisciplinary Materials Science	360009	1	Daimon,Uraoka,Katsuki, Tokuda,Nakashima, Aratani,(Sugiyama)	October-December	15	
Research Management	Research Management Exercise A	370001	1	Chair of Curriculum Committee	One year	15	
	Research Management Exercise B	370002	1	Chair of Curriculum Committee	One year	15	
	Research Management Exercise C	370003	1	Faculty members of assigned laboratory	One year	15	
	Exercise in Advanced Materials Science	370004	2	Faculty members of assigned laboratory	One year	30	
Interdisciplinary seminars	Seminar for Interdisciplinary Materials Science A	370005	1	Chair of Curriculum Committee	Autumn semester	15	
	Seminar for Interdisciplinary Materials Science B	370006	1	Chair of Curriculum Committee	Autumn semester	15	
	Seminar for Interdisciplinary Materials Science C	370007	1	Chair of Curriculum Committee	Autumn semester	15	
General research	Advanced Materials Science	370008	6	Faculty members of assigned laboratory	One year		

Lecturers in charge (shown in parentheses) are part-time instructors
Note: A detailed schedule will be released separately.

IX Our various counseling service systems

9 Our various counseling service systems

Counseling regarding course content

We have office hours for you to help deepen your understanding of the courses offered.
During office hours, students can visit the laboratories of our teaching staff overseeing the courses and ask questions about the courses or consult the teaching staff.
As the office hour schedules and contact methods are established by each professor please check the corresponding page on each subject's syllabus.

For the rooms and telephone numbers of the Graduate School of Information Science teaching staff, please access the following URL or proceed to "Top Page of the website of the Graduate School of Information Science→ Internal Page→ Website of the Administrative Office of the Graduate School of Information Science→ Administrative Office of the Graduate School of Information Science→ List of Telephone Numbers of Laboratories".

List of Telephone Numbers of laboratories:
http://isw3.naist.jp/IS/Local/IsOffice/announce/tel-list.pdf

Counseling related to research guidance

If you have issues related to education and research, you can consult one of your research supervisors. (This university has adopted a system whereby each student is assigned multiple research supervisors.)

Counseling about job hunting

You can consult the department head regarding job hunting. For counseling, we will also work to meet your counseling needs in cooperation with the research supervisors of each laboratory. (Also see the page entitled "10. Learning Support: Career Services Office.")

Counseling on your health

The Health Care Center provides advice regarding physical and mental health. Professional counselors come to the Center several times a month to provide you with consultation services by appointment. (For more details, please see "10. Learning Support: Health Care Center.")

Student Consultation

Graduate students are faced with a variety of different problems and worries in the course of their everyday lives.

In order to give support to students facing problems, each graduate school, the Health Care Center, and the Student Affairs Division, has a Miscellaneous Consultation for Students office with consultation staff on hand.

As well as providing advice for the solution of problems, consultation staff can also point consults to an appropriate consultation office.

So don't keep your troubles to yourself. If you have any worries, please talk them over with Miscellaneous Consultation for Students staff. Strict confidentiality is maintained regarding the content of all consultations.

For more details about consultation staffs, please refer to the website of NAIST.

https://ad-info.naist.jp/gakusei/member/campus/soudan.html

Counseling on harassment

Harassment refers to acts in violation of another person's character or human rights through speech or behavior against his or her will.

Principally, harassment takes the following forms:

◎**Sexual harassment**

To offend or humiliate one or more people around you by sexual coercion or approach, using a position of power or authority in such settings as study and education.

◎**Academic harassment**

Inappropriate speech and discriminatory treatment committed by those having authoritative status in an education setting by means of a position of power or authority in fields related to study, education and research, in violation of the right to receive education including mental mistreatment, or hindering education, research or related professional activities.

◎**Power harassment**

Acts by superiors or those having a similar status of applying conscious or subconscious pressure by exercising professional authority in matters that are beyond the boundary of their job description or that overstep the appropriate bounds even if related to the tasks.

We have a counseling window for sexual harassment cases.

If you have claims or seek advice on sexual harassment, please do not hesitate to contact us by telephone or mail. We have advisors in graduate schools, research centers, the Health Care Center, and the Administrative Bureau. For further details on advisors, please refer to the information on harassment on the Intranet/ internal page for students on our website.

X Study Support

10. Study Support

Health Care Center (③ on the campus map)

The Health Care Center (on 2F of the University Union Building) offers three functions below to maintain and promote student mental and physical health.

Check: Medical checkup
Cure: Day-to-day diagnosis and treatment
Care: Day-to-day lifestyle guidance and health education

The center has a consultation room, health counseling room, student chat room, and resting room, and is staffed by one physician and one nurse on a full-time basis (as well as three counselors and one nurse on a part-time basis).

1. Open hours

【Clinic】

Clinic Hours	Mon.	Tue	Wed.	Thu.	Fri.
10:30～13:30	○（～12:00）	○	×	○	○
14:30～16:30	×	○	○	○	○

（Interval time：13:30～14:30）

2. Diagnosis and treatment

If you are experiencing any physical problems, please do not hesitate to visit the center. Diagnostic equipment is in place to offer simple treatment, and the center prescribes medicine if necessary. If the care required is beyond the capacity of the center, you will be introduced to outside specialists or hospitals.

3. Mental health counseling

A doctor and nurses work together to offer mental counseling. The center is visited by professional counselors three times a week (three counselors each time) to offer counseling services. Please feel free to visit the center. Confidentiality obligations are strictly observed.

4. Medical checkups

General regular medical checkups are available in June, while special regular medical checkups are offered to those who handle RI, X-ray, gene recombination, organic solvents, and specified chemical substances. Patients are informed of all details (including the schedule) via e-mails, letters, and bulletin boards.
(Those who take a complete medical checkup are required to submit copy of the report to Health Care Center.)

5. Issuing health certificates

The center issues health certificates required for job applications and enrollment in advanced academic programs. Health certificates are available if you have gone through all the check items in the general regular medical checkups. Health certificates are issued (i) via the automatic certificate issuing system at the entrance lobby of the NAIST Library or (ii) at the Health Care Center.

6. Self checks

Automatic height and weight scales, digital sphygmomanometers, and automatic optometers (located in front of the reception desk of the center) are available anytime for self checks.

7. Student chat room

The room is available for relaxation and chatting.

8. Resting room

The resting room is available when you feel ill and want to take a rest.

9. Free-of-charge services and confidentiality obligations

• All the services offered by the center are free of charge. Please note, however, that medical expenses are incurred (but 70% of the expenses is covered by the National Health Insurance program) when you consult physicians at medical institutions introduced by the center.
• Please handle equipment carefully.
• All the medical practices (including physical and mental counseling) are subject to confidentiality obligations, which are strictly observed.

10. HCC NEWS (the Health Care Center News)

HCC NEWS (the Health Care Center News) is issued and distributed annually to provide useful information.

11. Contact information

Director's office at the center: Dr. Hidetaka Hougaku (physician) (extension 5105)
Reception desk at the Consultation Room: Ms. Kinuyo Nishiyama (nurse) (extension 5108)

The Health Care Center is always available to maintain and promote your health.

Medical Checkups and Health & Safety Education

NAIST offers general medical checkups in accordance with the School Health and Safety Act to maintain and promote the health of its students, while conducting special medical checkups in accordance with the Industrial Safety and Health Act to ensure student safety and health.

1. Medical checkups

Name	Category	Date	Target	Details
General medical checkup[*1]	Graduate School of Information Science	Wed., June 22	All students	Interview/examination, body measurement, visual acuity/hearing tests, blood pressure measurement, chest X-ray, urine tests, and blood tests
	Graduate School of Biological Sciences	Thu., June 23		
	Graduate School of Materials Science	Fri., June 24		
Special medical checkup	RI/X-ray[*2]	(Twice a year) The first special medical checkup is conducted concurrently with the general regular medical checkup. The second special medical checkup is scheduled for December.	Students registered as participants of radiation experiments	Interview, examination, and blood tests
	Gene recombination[*3]	(Once a year) The special medical checkup is conducted concurrently with the general regular medical checkup.	Students registered as participants of gene recombination experiments	Interview, examination, and blood tests
	Organic solvents	(Twice a year) The first special medical checkup is conducted concurrently with the general regular medical checkup. The second special medical checkup is scheduled for December.	Students registered as participants of experiments using organic solvents and identified by industrial physicians based on frequency and volume of organic solvents handled	Interview, examination, blood tests, urine tests, etc.
	Specified chemical substances	(Twice a year) The first special medical checkup is conducted concurrently with the general regular medical checkup. The second special medical checkup is scheduled for December.	Students registered as participants of experiments using specified chemical substances and identified by industrial physicians based on frequency and volume of specified chemical substances handled	Interview, examination, blood tests, urine tests, etc., required for respective specified chemical substances

[*1] Health certificates are available if you have gone through all the check items in the general medical checkups.
[*2] Students who do not take medical checkups in the category of "RI/X-ray" are not allowed to engage in radiation experiments.
[*3] Students who do not take medical checkups in the category of "Gene recombination" are not allowed to engage in gene recombination experiments.

2. Health & safety education

NAIST offers health and safety education programs for all the students to (i) maintain and promote health, (ii) ensure safety and health, and (iii) develop human resources with high levels of safety awareness.

Name	Category	Date	Target
Health education	Physical & mental health	Tue., May 24 4th period	All new students
Safety education	Safety education (common)	Wed., April 6 4th–5th periods	
	Safety education (experiment)		

Career Services Office

The Career Services Office has aimed to support students (principally Doctoral Course students) and post-doctoral researchers in career development. The office, located on the first floor of the Administrative Office building (next to the Educational Affairs Division), has job posting information, and a collection of job-related books (including study-aid books for SPI and quarterly corporate reports) available, and the career administrator is available to provide various career development support.

1. Open hours: 10:30-17:30 (Closed between 12:00 and 13:00)

※ Closed on Saturdays, Sundays, National Holidays and specific university Holidays.

2. Lending service of books related to job hunting

You can borrow books that will be useful in your job hunting or development of your career vision.

Rules for borrowing books

①Borrowing period: Available for a week, in general

※ However, you can extend the borrowing period for another week if no student would like to borrow the same book.

In this case, please contact the Career Services Office by the return date.

※ Your next borrowing request will not be accepted if you have not returned books for an extended period of time.

② The maximum number of books to be lent per person at one time: 2

※ We do not lend books and magazines which are reserved for reading inside the office.

※ In order to borrow books, you need to present your student card for personal identification.

③ Where to borrow and return books: Career Services Office

3. Career guidance

We hold career guidance seminars to help students find and secure jobs. Details of the seminars, including the dates, will be available on the Career Services Office website or via e-mails.

●Schedule for the academic year 2016

No. 1	How to proceed with job hunting for the academic year 2016	In total 13 seminars will be held between September and next June.
No. 2	Self-analysis seminar	
No. 3	Self-promotion seminar	
No. 4	Seminar on CVs and applications	
No. 5	Preparation for interviews and business etiquette	
No. 6	How to use job navigation sites	
No. 7	How to read newspapers to carry out research on companies and industry fields	
No. 8	Intensive seminar on interviewing① (Group interview)	
No. 9	Simulation of group discussion	
No. 10	Intensive seminar on interviewing② (Group interview)	
No. 11	Intensive seminar on interviewing③ (Group interview)	
No. 12	Practical seminar with a mock interview	
No. 13	Last-minute seminar	
Correction of mock applications, mock exams (preparation for SPI), preparation for civil service examination, job guidance for international students		

4. Career counselling

We provide advice on concerns and anxiety related to your career vision and job hunting. Our career administrators (for doctoral course students only) and career advisors from employment support organizations are available for counselling. Counselling services are available by appointment only and reservation instructions are provided on the Career Services Office website. Confidentiality will be strictly observed.

5. Contact

Extension: 5921/5922
E-mail: career@ad.naist.jp
URL: http://www.naist.jp/career/

Information iniTiative Center : ITC (⑧on the campus map)

ITC manages and operates Information infrastructure and Information network (Mandara System) in NAIST. ITC also conducts the support of education and research by utilizing Information security management and Information media.

What is "Mandara"

The university-wide information system at NAIST is named "Mandara", which refers to the truth in Esoteric Buddhism (i.e., the seeking of the infinitesimal paradoxically leads to infinite proliferation).
The Mandara System features strategic architectural configuration to meet user needs and build an advanced environment.
Meanwhile, an information processing environment has been developed from the viewpoint of researchers based on the basic principle of "fulfillment without excess or deficiency" as represented by Mandara.

How to use the Mandara System

You can get more information about the Mandara System to the next page.
And, when you use the Mandara System, you must observe the Ethical Regulations and the following Basic Rules.

■ Ethical Regulations for NAIST Information Network Use
http://itcw3.naist.jp/ITC-local/policy/ethical_regulations.en.pdf

■ Mandara Operation Policy
http://itcw3.naist.jp/ITC-local/policy/mandara_operation_policy_en.pdf

■ Computer Security on Mandara
http://itcw3.naist.jp/ITC-local/policy/security/index.en.html
It is necessary to keep your computer secure in order to use the network properly.

■ Use of P2P Software
http://itcw3.naist.jp/ITC-local/policy/p2p/index.en.html
Using peer-to-peer (P2P) file-sharing software in NAIST or the NAIST dormitory is prohibited.

If you break these regulations, rules and the Laws of Japan, ITC may suspend your account. So you have to keep these rules.

Service Guide for Information Environment

Information Initiative Center

1. Using NAIST Information Environment

Account

Account (User ID) and password are very important for using NAIST Information Environment. You will get them at the orientation. The password must be managed properly. The initial password which you get first is temporary, you have to change it to your own password immediately. And you must not tell your password to anyone.

? http://itcw3.naist.jp/ITC-local/password/good-passwd.en.html (Good Password?)

E-mail Service

ITC assigns one E-mail address to each person. E-mail service is very important for your research activity and campus life in NAIST. The following table shows the E-mail service setting.

	Server Name	Protocol	Authentication	Port
Incoming	mailbox.naist.jp	IMAP over SSL	Plain password	993
Outgoing	mailpost.naist.jp	SMTP over TLS	Plain password	587
Web mail	https://mailbox.naist.jp/	HTTPS	Plain password	

? http://itcw3.naist.jp/ITC-local/Mail/mailenv.en.html

2. MANDARA Network (Wireless LAN)

MANDARA Wireless LAN

In our campus, the MANDARA Wireless LAN (mm2010) is available. And it provides the strong network security (WPA2 encrypted communications). So, when you establish a connection with mm2010, you need to enter your MANDARA account and password.

ESSID	Encryption key (WPA2-PSK AES)
mm2010	B6djfSOuBbsLx8xM01BoAjs2e45CGdw9jr/ScdLBl0d8kSA

? http://itcw3.naist.jp/ITC-local/wireless/index.en.html

3. Desktop Environment

Personal Workstation System

ITC prepares computer terminals which are called Personal Workstations. And they are installed in your laboratory. You can operate them to use NAIST information resources efficiently.

Before you begin to use this Workstation, you need to take a lecture from PC administrator in your Laboratory.

Note :

These workstations are managed by ITC, you are not permitted to install software or change system settings. If you need, please ask your PC administrator.

4. Campus License Software

NAIST has a Campus Agreement with Microsoft Development software (Microsoft DreamSpark Premium), Apple iOS Developer Enterprise Program and AntiVirus Software (ESET).

http://naist-ld.naist.jp/

5. Printer Service

You can use printers which are installed on each floor. Please use them in the right way for other users, because they are for common use equipment.

http://itcw3.naist.jp/ITC-local/manual/printer/printer.en.html

6. High-Performance Computer Server

With your NAIST account, you can use NAIST's High-Performance Computer Server. On this server, You can run your program, such as MATLAB, R, Java SE, CUDA, Hadoop and Materials Studio.

http://trac.naist.jp/trac/grid/

7. When in Trouble

You can browse the information written in this leaflet at the following URL.

http://itcw3.naist.jp/ITC-local/index.en.html

Reporting an issue or trouble

If you find a malfunction in ITC managed equipment such as a workstation, network, printer and so on, you can inform the ITC staff about its problem or request of solution by sending an e-mail to: itc-trouble@itc.naist.jp.
※ If you need some advise or help for using IT Services on campus. Pleas ask first PC administrators of your laboratory.

	Contact	ITC staff room
Information Science	itc-trouble@itc.naist.jp http://itcw3.naist.jp/ITC-local/ITC-mail-lists/itc-trouble.html	IS Building B207
Biological Science	PC administrator and faculties in your lab	BS Building D214
Material Science	PC administrator and faculties in your lab	MS Building E202
Administration Bureau	Information Planning Section	AD Building 2F

http://itcw3.naist.jp/ITC-local/ITC-mail-lists/itc-trouble.html

Guidelines for Using NAIST Information Environment

Information Initiative Center

1. Introduction

The information system of NAIST (MANDARA system) are provided for the education, the research and the office work of university. MANDARA system includes not only the equipment in campus but also users' personal computers/smart phones which are connected to the MANDARA network. When you use MANDARA system, you always have to pay attention and effort to keep normality of the system.

If you neglect about the information security or get illegal actions, you will become both of a victim and a perpetrator. It means that you would not only get damaged but also get punishment by the law. In addition to, you may bother many related people and spoil the reputation of NAIST.

You have to take actions for keeping information security and avoid the illegal use.

2. Preventing illegal use

If your operation is against the law, whether by accident or design, you have to take on responsibility about your own action. So, you need to confirm the law in relation to information security, understand it and observe it.

Social inconvenience behavior is prohibited

You must respect the rights of others in information society as well as real society. And Users must not defame others by using E-mail, BBS, SNS and etc.

Illegal access is prohibited

Prohibits unauthorized access and communicating other people's passwords without their permission.

Illegal copying is prohibited

Users should respect copyrights and license agreements. Especially, you should not copy the commercial software which is protected by copyrights or a license agreement.

Sharing of illegal content is prohibited

Under the law of Japan, on the Internet, you are not allowed to share/upload/download copyrighted files (e.g. movies, music, and pictures...) without the agreement of their authors.

3. Ethical Regulations for NAIST Information Network Use (Prohibited matters)

1. Do not violate the personal communication of others.
2. Do not violate the rights or privacy of others.
3. Do not violate copyrights or intellectual property rights.
4. Do not send or participate in the sending of obscene/indecent pictures or writing, immoral communication, or any other communication that violates Japanese laws and ordinances.
5. Do not obstruct the management and operation of the Information Network System or damage the network or its equipment through the use or downloading of harmful software or data.
6. Only access the Information Network System within the authorized limits.
7. Do not use the Information Network System for religious or political purposes.
8. Do not use the Information Network System for personal profit.
9. Do not obstruct the proper management and operation of the Information Network System.
10. Do not participate in or perform acts that unjustly impair or harm personal, university, or social interests and activities.

And Do not use file-sharing application on campus and dormitory.

? http://itcw3.naist.jp/ITC-local/policy/ethical_regulations.en.pdf

4. Security measures

Network usage causes various problems, such as infecting computer virus by attached to e-mail, accessing to malicious webpages, various attacking to the server and personal information leaks. It is necessary to keep your computer secure in order to use the network properly.

Password Management

Your account and password are “YOUR KEY” to services, supports and more. If your password is stolen, your data might get stolen, changed or deleted. So you should set a “Good Password” which is a long string and consists of mixed characters (alphabets, numbers or symbols). After setting a good password, make sure you guard your password.

Using the network services

When you connect your devices to the MANDARA network, including dormitory network, you must install Anti-Virus software and update virus pattern files. And also, you have to update OS and turn on Firewall settings on your devices.

Virus measures

You always have to update to the latest corrective programs, and install virus detection tools. And be sure to carry out periodic updates of Operating Systems and virus pattern files.

Ethical Regulations for NAIST Information Network Use

Note: This is English translation of the Ethical Regulations for NAIST Information Network Use, which is originally in Japanese. It is provided as a reference for international staff and students to understand the content of Ethical Regulations for NAIST Information Network Use and it should not be regarded as official regulations.

Article 1 (Purpose)

These regulations have been created to prevent actions that may violate communication privacy, human rights, or intellectual property rights, actions of moral misconduct, and those actions that may interfere with proper operation during the use of NAIST's information network. In addition, they have been created to ensure smooth operation of the information network system and contribute to the improvement of its management, supervision and role in education and research.

Article 2 (Definitions)

(1) The "Information Network System" refers to the facilities for the management and operation of the information network, the computers connected to this network, equipment related to the network, and the software used on it.
(2) "Users" refers to NAIST directors, staff, faculty, students and those engaged technical, administrative, research, or educational activities, who use NAIST's information system.
(3) "System administrator" refers to the director of the Information Initiative Center and those involved with administration and management of the information network system.

Article 3 (Restrictions of Use)

The information network system is to be solely used for the purposes of education, research and university administration and management.

Article 4 (Network Rules)

Users recognize that the Information Network System can have strong and broad effects on society and, in order to ensure the smooth and proper operation of the network, agree to abide by the following rules. In using the internet, the user must handle all information, personal and otherwise, attained through the system properly.

(1) Do not violate the personal communication of others.

(2) Do not violate the rights or privacy of others.
(3) Do not violate copyrights or intellectual property rights.
(4) Do not send or participate in the sending of obscene/indecent pictures or writing, immoral communication, or any other communication that violates Japanese laws and ordinances.
(5) Do not obstruct the management and operation of the Information Network System or damage the network or its equipment through the use or downloading of harmful software or data.
(6) Only access the Information Network System within the authorized limits.
(7) Do not use the Information Network System for religious or political purposes.
(8) Do not use the Information Network System for personal profit.
(9) Do not obstruct the proper management and operation of the Information Network System.
(10) Do not participate in or perform acts that unjustly impair or harm personal, university, or social interests and activities.

Article 5 (System Administrator Duties)
The system administrator will alert all users of these regulations and the rules within, while promoting moral awareness concerning information network system usage.
(2) The system administrator may take measures such as canceling access to the Information Network System of those individuals who violate or are in violation of these regulations or any of the rules within.

Article 6 (Network Investigation)
Upon discovering acts or computers in violation of the rules in article 4, report this to the Information Initiative Center. (Herein referred to as "Center")
(2) After investigating possible violations and finding violations of the rules in article 4, the Center will notify the university president and the dean of the violator's graduate school of the investigation results.
(3) In the case where a violation involves areas under the administration of a university committee, the Center will also notify the appropriate committee of the investigation results.
(4) In performing the investigation in (2), the Center will perform an impartial interview of the possible violation and those involved, taking care to respect their respective privacy, rights, and reputation.

Article 7 (Disciplinary Actions)
After receiving a report of the investigation in Article 6-(2) and after following the appropriate procedures, the university president will decide strict disciplinary actions appropriate to the severity of the violation.

Article 8 (Miscellaneous Provisions)
Provisions and rules in addition to those stated in these regulations will be established concerning information network usage.

Supplementary Provision
These regulations shall come into effect on April 1, 2004.

Supplementary Provision
These regulations shall come into effect on April 1, 2005.

Supplementary Provision
These regulations shall come into effect on April 1, 2010.

Supplementary Provision
These regulations shall come into effect on April 1, 2011.

NAIST Library (② marked on the campus map)

We, NAIST Library support education and research in advanced sciences and technologies (especially in information science, biological sciences, and materials science). We pursue to make our library keep providing NAIST members with excellent accesses to books, magazines and scientific information anytime, anywhere connected with the internet through “MANDARA network”.
We provide accesses to digitalized NAIST academic works (e.g. lectures and academic dissertations), and efficiency navigation to full-text of latest scientific information on the library website.

We also provide usual library services (e.g. book circulation, magazine browsing) for 24 hours. And we are improving services: setting up the booth offering books in specialized theme, “CHI NO MORI”, renovation for group meeting rooms “Multimedia Lounge” and “Theater Lounge”, enlarging interlibrary services (already available with other academic libraries, National Diet Library and Nara Prefectural Library and Information Center).

The major services of the library

1. Advanced search
NAIST library provides fast crossover search function on the library web from our book collection, digitalized NAIST academic works, our institutional repository collection, available e-journals and e-books. This will give you fine result by search in full-text data of our collection as well as in bibliographies, tables of contents and abstracts.

2. Lecture archives
NAIST library launched “Lecture archive”, that has digitalized our schools’ lecture movies, to make them public or release to the members on the library web from the year 2005. NAIST library is digitalizing and releasing the lectures, the principal activity of NAIST, with permission of lecturers.

3. Centralized production of digitalized works
NAIST library takes the central role in producing, releasing and managing digitalized date of NAIST academic works with permission for access through the internet.

The major types of digitalized works are follows:
a. Scientific articles
b. Academic dissertations
c. Technical reports
d. KAKENHI Research-results reports
e. Lecture movies (including guest lecturers if permitted.)

4. Selective dissemination of information ("SDI")
NAIST library provides "SDI" function to send an email to inform of arrival of the material including the words of concern that the members registered on the personalized web page.

5. Personalization
NAIST library provides functions to allow the members to request services and to confirm order status via the personalized web page for each member.

English E-Learning System (ALC NetAcademy２)

1. What's ALC NetAcademy 2?

ACL NetAcademy 2 is an online English learning system which provides self-study courses to improve English competence, practice TOEIC, and develop reading skills for scientific papers.

2. Who can Use NetAcademy 2?

Students and faculty members of NAIST can use the system. This system is on service 24 hours a day and is accessible at home or from outside the campus. Registration is not required.

3. How to Access?

You can directly access the following URL,

http://itcw3.naist.jp/NetAcademy/NetAcademy.html

<How to login> Account：MANDARA-DOMAIN¥"MANDARA account"

Password: "MANDARA password"

4. What Courses are available?

The following five courses are available:

- Super-standard Course
- Standard Course
- Course for Beginners and Intermediates Plus
- Technical English (Basic Course)
- Technical English (Power-up Course)

5. Recommended System Requirements

NetAcademy 2 has been tested on the following platforms:

OS	Windows Vista SP2 / 7 SP1 / 8 , 8.1 *
WWW Browser	Internet Explorer 8 / 9 / 10 / 11
Browser Plug-in	Flash Player 12.0

*NetAcademy 2 should run on other platforms as long as Flash Player operates properly. However, there is a possibility that texts and animations are not displayed properly, etc.

*On MacOS X 10.3/10.4, TOEIC Test in the Course for Beginners and Intermediates Plus has been confirmed not to work properly.

XI Campus Life

11 Campus Life

Tuition and payment

1. Tuition fee and due date (by automatic bank transfer)

Course	Tuition fee (*1)	Due date (*2)
Master's course Doctoral course	535,800 yen (267,900 yen for a half-year term)	Spring semester (April to September): Due May 27 (Friday), 2016 Autumn semester (October to March): Due November 28 (Monday), 2016

*1: If the tuition fee is revised during your enrollment, the new tuition fee will be charged.
(You will be notified of the tuition fee for the semester by e-mail during May and November.)
*2: Payment (by automatic bank transfer) is due on May 27 and November 27 every year. If the due date falls on a non-business day of the financial institution, the payment will be transferred on the following business day. (Your account balance is checked at 3:00 pm on the business day preceding the due date.)

2. Payment

The tuition fee for a half-year term is automatically withdrawn from your bank account on the due dates of the spring and autumn semesters designated by NAIST. If you wish to pay the tuition fee for both semesters combined on the due date in May, please contact us by April 28 (Thursday), 2016. If you have applied for tuition fee waiver, payment of the tuition fee will be postponed until the result of the application is announced. For details of automatic bank transfer procedures and other related matters, please inquire at the Funding Section of the Finance Division (extension: 6227).

Note that failure to pay the tuition fee for two consecutive semesters will result in expulsion from NAIST.

Student ID Card

NAIST students are issued a student ID card, which not only verifies your status as a NAIST student but also serves as an electronic key. This key is needed for: entry to NAIST's facilities before or after the normal service hours, namely between 7:00 pm and 7:30 am, and on Saturday, Sunday and national holidays; use of the automatic certificate issuing machine; and borrowing of books from the NAIST Library. Therefore, you should carry your student ID card at all times while attending NAIST. Your graduate school, year of enrollment, and student number are registered in the card, and card readers automatically scan this information to check whether you are eligible to enter specific facilities in NAIST.

Precautions on handling your student ID card

(1) You should keep your student ID card in a case and carry it at all times at NAIST.
(2) You are not allowed to lend or assign your student ID card to anyone else.
(3) If you lose your student ID card or your card has become unusable due to failure of the magnetic strip, etc., you should immediately report it to the Academic Affairs Section of the Educational Affairs Division.
If the card reader does not react properly upon inserting your student ID card to enter a certain building, call the Security Center on the first floor of the Administration Bureau building through the interphone, state your affiliation and name, and the key will be unlocked for you.
(4) When your student ID card has expired or you are no longer a NAIST student due to withdrawal or for other reasons, return your student ID card to the Academic Affairs Section of the Educational Affairs Division without delay.
(5) Protecting your card:
・Keep your student ID card away from strong magnetic fields or devices (e.g. NMR machines).
・Do not leave your card in hot places (e.g. in a car during summer).
・Do not fold your student ID card.

Student Personal Report

The information contained in the "Student Personal Report" (*Gakusei kojin houkokusho*) submitted at the time of enrollment is used for contacting you in case of emergency. If any of the following registration details changes, please inform the Academic Affairs Section of the Educational Affairs Division without delay.

●Registration details

・Your address and telephone number (fixed and/or mobile) where you can be reached after enrollment in NAIST

・Information about your place of work (if you are a working student)

・Name of a contact person in case of emergency, person's relationship with you, and his/her address and telephone number

● Where to report

Please report the change to the Academic Affairs Section of the Educational Affairs Division.

Procedures and issuance of certificates

1. Procedures

When requested by NAIST, by means of a notice on the bulletin board, etc., you should perform the procedures as requested within the specified period. You should also perform the prescribed procedures when necessary for your own personal reasons. Please note that failure or delay in doing so could cause hinder you in many ways and become an inconvenience to other people.

Document to be submitted	When to submit	Contact office
Leave of absence request form (Kyugaku Negai)	When you are to take a leave of absence for three consecutive months or longer by illness,studying abroad,and so on. (If illness is the reason for the leave, a medical certificate should be attached.) * The form should be submitted at least two weeks in advance.	Academic Affairs Section, Educational Affairs Division (Extension: 5085)
Return from leave request form (Fukugaku Negai)	When you wish to return to NAIST before the period of the leave of absence is over. （For those who were absent due to illness, please attach a medical certificate.）	

Return from leave notice form (Fukugaku Todoke)	When you wish to return from leave during your scheduled leave of absence period.	
Withdrawal form (Taigaku Negai)	When you are to withdraw from NAIST * The form should be submitted at least two weeks in advance.	
Change of name form	When your name changes * A residence certificate or other document proving your change of name should also be submitted.	
Student ID card reissue request form	When you have lost your student ID card or your card has become unusable due to damage or dirt	
Overseas travel Notification	When you are to travel overseas for less than three months (except when the travel is needed as part of the regular coursework at NAIST)	Education Planning Section, Educational Affairs Division (Extension: 6247)
Study Abroad Request	When you go studying abroad * The form should be submitted at least two months in advance.	International Affairs Section, International Affairs Division (Extension: 5909, 5087)
Notice of Absence from Japan	When international students are to temporarily return to their home countries or depart from Japan. * Please submit "Notice of Absence from Japan" before leaving .※The form is available at International Student Affairs Section for the document.	International Student Affairs Section, International Affairs Division (Extension: 5909, 5087)
Plan after completion of course /job (informal employment offer) report form	When you graduate or leave school	Career Services Office (Extension: 5921)
The forms to be submitted to the Educational Affairs Division are available at its counter, or can be downloaded from the intranet and website for NAIST students at: https://ad-info.naist.jp/gakusei/shinsei.html		

●Notes on procedures for leave of absence or withdrawal

(1) Leave of absence

- You can apply for leave of absence if you are unable to attend school for three consecutive months or longer due to illness or for other justifiable reasons.
- The period of leave of absence is up to one year, however, you may apply for an extension of the period for another one year at the longest, if you have special reasons. To apply for an extension of the period of leave of absence, you are required to submit the leave of absence (extension) request form again, at least two weeks prior to the expiration of the initial period of leave of absence.
- Upon expiration of the period of leave of absence, you are automatically readmitted to NAIST. Please submit "Return from leave notice form."
- The period of leave of absence does not count toward the standard years of study and years of enrollment.
- Please also indicate when you expect to complete your course after returning to NAIST.
- Some certificates (including certificate of expected completion, certificate of health, and certificate of student travel discount) cannot be issued during the period of leave of absence.
- You cannot use the NAIST Library during the period of leave of absence.
- You do not have to pay tuition fees for the period of leave of absence.

(2) Withdrawal

- If you withdraw from NAIST after having been enrolled in the doctoral course for at least three years, provided your instructor confirms you have received his or her research guidance, you are treated as "having withdrawn from NAIST with the approval of your research instructor" in your personal record.
- Tuition fees, once paid, cannot be reimbursed.

(3) Common matters

- Permission for both leave of absence and withdrawal is conditioned on payment of the tuition fee.
- Tuition fees, once paid, cannot be reimbursed except in the following cases:
  - If leave of absence is permitted, the portion of the tuition fee for the period of leave of absence will be reimbursed.
  - If you paid the combined tuition fee for the spring and autumn semesters, and are permitted to withdraw from NAIST before the beginning of the autumn semester, the tuition fee for the autumn semester will be reimbursed.
- The deadline for submitting the form is two weeks prior to the date you wish to take leave of absence or withdraw. If you fail to submit the form by the deadline, the date of permission will be in the following month.
- In principle, a request for leave of absence or withdrawal should be made on a semester by semester basis.
  Leave of absence: The period should commence from April or October and end at the end of September or March, in principle.
  Withdrawal: The date you wish to withdraw from NAIST should be the end of September or March.
- You should indicate the reason for the leave of absence or withdrawal in the form in detail; "for personal reasons" cannot be accepted.
  - Leave of absence: If you take leave of absence due to illness, a medical certificate should be attached. If the reason is "pressure of business," indicate the name of your workplace.
- Note that you may be required to move from NAIST's dormitory or take procedures to stop payment of scholarship.

2. Issuance of certificates

●Certificates that are automatically issued

You can use the automatic certificate issuing machine to have the following certificates issued within the same day: certificate of enrollment, certificate of expected completion, certificate of academic record, certificate of completion, certificate of health and certificate of student travel discount. For conditions of issuance of these certificates, please refer to the following table.

Certificate	Conditions of issuance	Service hours and location of the automatic certificate issuing machine
Certificate of enrollment(Japanese/ English)	Not issued to non-regular students, including research fellows.	Service hours: 7:30 am to 7:00 pm Monday to Friday (excluding national holidays and year-end holidays) Location: Entrance lobby of NAIST Library
Certificate of expected completion(Japanese/ English)	Students should have been enrolled in the master's course for at least six months or be in the second year in the doctoral course to apply for this certificate.	
Certificate of completion of Master's course (Japanese/ English) Certificate of academic records of Master's course (Japanese/ English)	Only available for those who have proceeded to the doctoral course internally from the master's course at NAIST.	

Certificate of academic record (Japanese/ English)	The certificate of academic record is an official certificate issued in the name of the Dean of the Graduate School that does not include failed courses.	
Academic record (Japanese/ English)	The academic record is issued for students to check their academic performance including failed courses.	
Certificate of health(Japanese only)	The certificate is issued only to those who have completed all annual health checkups. Students admitted to NAIST from the autumn semester will be issued the certificate after taking the annual health checkup in the following year.	
Certificate of student travel discount (Japanese only)	・Up to 10 certificates are issued per student annually. ・The certificate is valid for three months. (Not issued to non-regular students, including research fellows and students on leave of absence.)	

● **Certificates issued over-the-counter**

If you need certificates other than those issued by the automatic certificate issuing machine, apply at the Educational Affairs Division using the prescribed application form. You should apply well in advance, as some certificates take time to issue.

Certificate	Conditions of issuance	Contact office
Certificate for Japanese Government Scholarship students	Issued in the afternoon of the day following the application (except on Saturday, Sunday and national holidays).	International Student Affairs Section, International Affairs Division (Extension: 5909, 5087)
Certificate for international students (Ex. Certificate for Japanese Government Scholarship students)	Issued in the afternoon of the day following the application (except on Saturday, Sunday and national holidays).	International Student Affairs Section, International Affairs Division (Extension: 5909, 5087)
Certificate of occupancy in student dormitory	Issued in the afternoon of the day following the application (except on Saturday, Sunday and national holidays).	Student Support Section, Educational Affairs Division (Extension: 5920)
Certificate of Enrollment Personal Accident Insurance for Students Pursuing (PAS)	Issued in the afternoon of the day following the application (except on Saturday, Sunday and national holidays).	Student Support Section, Educational Affairs Division (Extension: 5920)

Commuter certificate

(1) Student commuter pass

To buy a student commuter pass between your place of residence and NAIST, fill in your student number, name and address in a commuter pass application form (*Tsuugaku teiki joshaken hakko hikae*) distributed at the beginning of each academic year, and present the form together with a commuter pass purchase form and your student ID card to a train station with a commuter pass office. (If there is no more space on your commuter pass application form, please apply at the Educational Affairs Division for an additional copy.)

The nearest Kintetsu stations designated by NAIST are Takanohara Station on the Kyoto Line, Gakuenmae Station on the Nara Line, and Gakken-Kita-Ikoma Station on the Keihanna Line.

(2) Student commuter passes for commuting to off-campus facilities

If you are going to work at off-campus facilities as part of your study at NAIST and need a student commuter pass for that purpose, you should apply at the Student Support Section of the Educational Affairs Division to have a commuter certificate issued. The application should be submitted at least one month before starting work at the off-campus facilities (the certificate takes longer to issue because we must obtain approval from the railway company).

* Non-regular students, including research fellows and students on leave of absence, cannot purchase student commuter passes.

Scholarships of private organizations

Students will be informed of scholarship programs offered by private organizations whenever applications are invited.

Tuition waiver

NAIST offers a tuition fee waiver program, under which students selected from among applicants are exempt from payment of all or part of tuition fees provided that: the student has difficulty in paying tuition fees for financial reasons and is recognized for academic excellence; or the student has extreme difficulty in paying tuition fees because of the death of the person who would normally have paid the tuition fee within one year prior to his or her admission to NAIST or due to damage by wind, flood or other natural disaster to the student or the person who would normally have paid the tuition fee. For details about application procedures, please inquire at the Student Support Section of the Educational Affairs Division.

Personal Accident Insurance for Students Pursuing Education and Research（PAS）

Personal Accident Insurance for Students Pursuing Education and Research (Gakkensai) insures students enrolled in national, public, and private universities in Japan against unexpected physical injuries they may suffer while attending lectures, university events, extracurricular activities, taking a break in the campus, or traveling to and from university or off-campus facilities for research/educational purpose. At NAIST, all students are required to take out the Gakkensai insurance as part of enrollment procedures.

For more details about the Gakkensai insurance, please refer to the booklet.

Course	Insurance premium	Insurance period
Master's course	1,750 yen	2 years
Doctoral course	2,600 yen	3 years

Liability Insurance coupled with PAS

All students are also required to take out the Personal Liability Insurance for Students (Gakkenbai). This optional coverage insures students against third-party liability for damage caused by the student to others or their property while attending lectures, university events, or traveling to and from university facilities, both on- and off-campus. For more details about the Gakkenbai insurance, please refer to the booklet.

Option	Liability insurance for students pursuing education and research
Coverage	Damage to others or their property caused by the student while attending lectures, university events and traveling to and from university facilities for these purposes
Amount of coverage	Up to 100 million yen per incident
Insurance premium* (1 year)	340 yen

- Valid for a one-year period until March 31 for students admitted in April and until September 30 for students admitted in October.

General Insurance for Students supplementary to Gakkensai

General Insurance for Students supplementary to Gakkensai provides comprehensive coverage against risks that may arise in campus life. At NAIST, students are not obligated to be covered by this insurance. If you wish to take out the insurance, please complete the necessary procedures by yourself. Brochures with details of this insurance are available at the Student Support Section of the Educational Affairs Division.

Student dormitories (Campus map 13)

Student dormitories are located within the campus of NAIST as shown below.

Outline of student dormitories

Type	Single-person occupancy	Couple occupancy	Family occupancy
Structure	Five-story reinforced concrete building	Five-story reinforced concrete building	Five-story reinforced concrete building
No. of residential units	559	50	10
Floor area	13 m^2	36.98 – 41.45 m^2	51.56 m^2
Fixtures	Desk, bed, mini kitchen, toilet, etc.	Desk, kitchen, toilet, bath, laundry machine, air conditioner, etc.	Desk, kitchen, toilet, bath, laundry machine, air conditioner ,etc.
Common facilities	Bath, laundry, lounge, etc.	———	———
Dormitory fee	5,900 yen/month	11,900 yen/month	14,200 yen/month
Common service charge	4,100 yen/month	600 – 1,100 yen/month	1,100 yen/month
Utility charge	To be paid by the occupant	To be paid by the occupant	To be paid by the occupant

Dwellings rented by NAIST for students

NAIST also rents apartment complexes (Nakatomi Daisan Danchi, Tomio Danchi and Heijo Daiichi Danchi) owned by the Urban Renaissance Agency, and rents them out to students upon application. If you are interested, please inquire at the Student Support Section of the Educational Affairs Division for details.

Parking a car and bicycle

1. Commuting by car

You are not allowed to drive a car on the premises of NAIST. Please park your car in the public parking lot in the Takayama District, north of NAIST. The parking fee must be paid in cash (300 yen per day) or using a parking pass. Please note that the first time you buy a parking pass, you should buy it at the Foundation for Nara Institute of Science and Technology (in Takayama Science Plaza) at the north of the public parking lot in the Takayama District. Anytime after that, you can buy the pass at the convenience store on the first floor of the University Union.

Parking pass fee (for students): 1,500 yen per month, 4,000 yen per three months, 7,500 yen per six months

2. Commuting by bicycle and motorcycle

You are not allowed to ride a bicycle or motorcycle on the premises of NAIST. Please park your bicycle or motorcycle in the public parking lot in the Takayama District, north of NAIST. Parking is free.

If you wish to use the parking lot, you must register at the Student Support Section of the Educational Affairs Division. Parking of bicycles and motorcycles in the parking lot without registration constitutes illegal parking, and such bicycles and motorcycles will be removed.

National museums campus members

NAIST has joined the campus members system. The campus members system is a cooperative system between national museums and universities which aims to provide students with the opportunity and facilities to study culture and history through the sharing of the museums collections of cultural assets.

Holders of NAIST Student ID cards (both regular and non-regular students) are allowed free entry to the regular exhibitions including featured exhibitions at the Kyoto National Museum and Nara National Museum as many times as they wish. Or discount rate applies to the special exhibition. For more details about other benefits, please refer to the website of NAIST. (http://www.naist.jp/campus-student/e02_06_j.html)

Students' Cultural Activities and Events

As part of the cultural activities offered, we organize an annual field trip to Nara to visit historic sites, shrines, temples, and museums in order to cultivate ethical values and sophistication as human beings and as researchers, scientists, and engineers.

Many international students participate in this trip every year and the trip is now a venue for international exchange between Japanese and international students. Students are welcome to

participate (details will be sent via email).

[Destinations in the last three years]
[Fall 2015] Todai-ji Temple, Kasuga Taisha Shrine, Kofuku-ji Temple, etc. in Nara
[Spring 2015] Takamatsuzuka Tomb and Ishibutai Tomb, etc. in the Nara/Asuka areas
[Fall 2014] Yakushi-ji Temple in Nara (preaching, copying sutras, worship, etc.)
[Spring 2014] Horyu-ji Temple, Chugu-ji Temple, Hoki-ji Temple, etc. in Nara
[Fall 2013] Yakushi-ji Temple in Nara (preaching, calligraphy, worship, etc.)
[Spring 2013] Nara National Museum, etc.

Student welfare facilities

1. University Union (Campus map 3)

University Union houses a restaurant, tea room, convenience store, and healthcare center for the welfare of students and faculty members of NAIST.

2. Social venue for researchers: Guesthouse Sentan (Campus map 7)

Students and faculty members of NAIST can use the facilities of Guesthouse Sentan as outlined below. For more details, please refer to the website of NAIST.
(http://www.naist.jp/faculty-person/b02_06_j.html)

Facilities	Period of use/service hours	Where to apply
Accommodation	Check-in time: after 3:00 pm Check-out time: before 11:00 am	Welfare Section of the Personnel Division Extension: 5033 E-mail: fukuri@ad.naist.jp
Meeting room	Open from 9:00 am to 9:00 pm (Closed from December 29 to January 3)	
Fitness room	Open from 9:00 am to 10:00 pm	Application is not necessary.

3. Sports facilities

Students and faculty members of NAIST may use the following sports facilities for free.

Facilities	Open hours	Selection by drawing
Athletic field	7:00 am to sunset	Successful applicants are selected by ballot, which is held on the 20th day of the preceding month (or the following weekday if the day falls on a Saturday, Sunday or national holiday). Venue of ballot: Lobby on the first floor, Interdisciplinary Frontier Research Complex No.2 Time of ballot: 9:00 am
Volleyball/basketball court	7:00 am to 10:00 pm	
Tennis court	7:00 am to sunset	
Tennis court (with lighting)	7:00 am to 9:00 pm	

You can also rent sporting goods for tennis, softball, etc. and barbecue equipment.
For details about using the sports facilities, please inquire at the Student Support Section of the Educational Affairs Division.

4. Takayama Science Plaza

Takayama Science Plaza, operated by the Foundation for NAIST, adjoins NAIST, which houses a restaurant and seminar rooms.

Other matters

1. Counter hours of the Educational Affairs Division

8:30 am – 5:30 pm (except Saturdays, Sundays, national holidays, foundation day of NAIST, Office closing days for summer, and December 29 to January 3)

In case of emergency, you can enter the office, if open, even before or after the counter hours.

2. Notification from NAIST

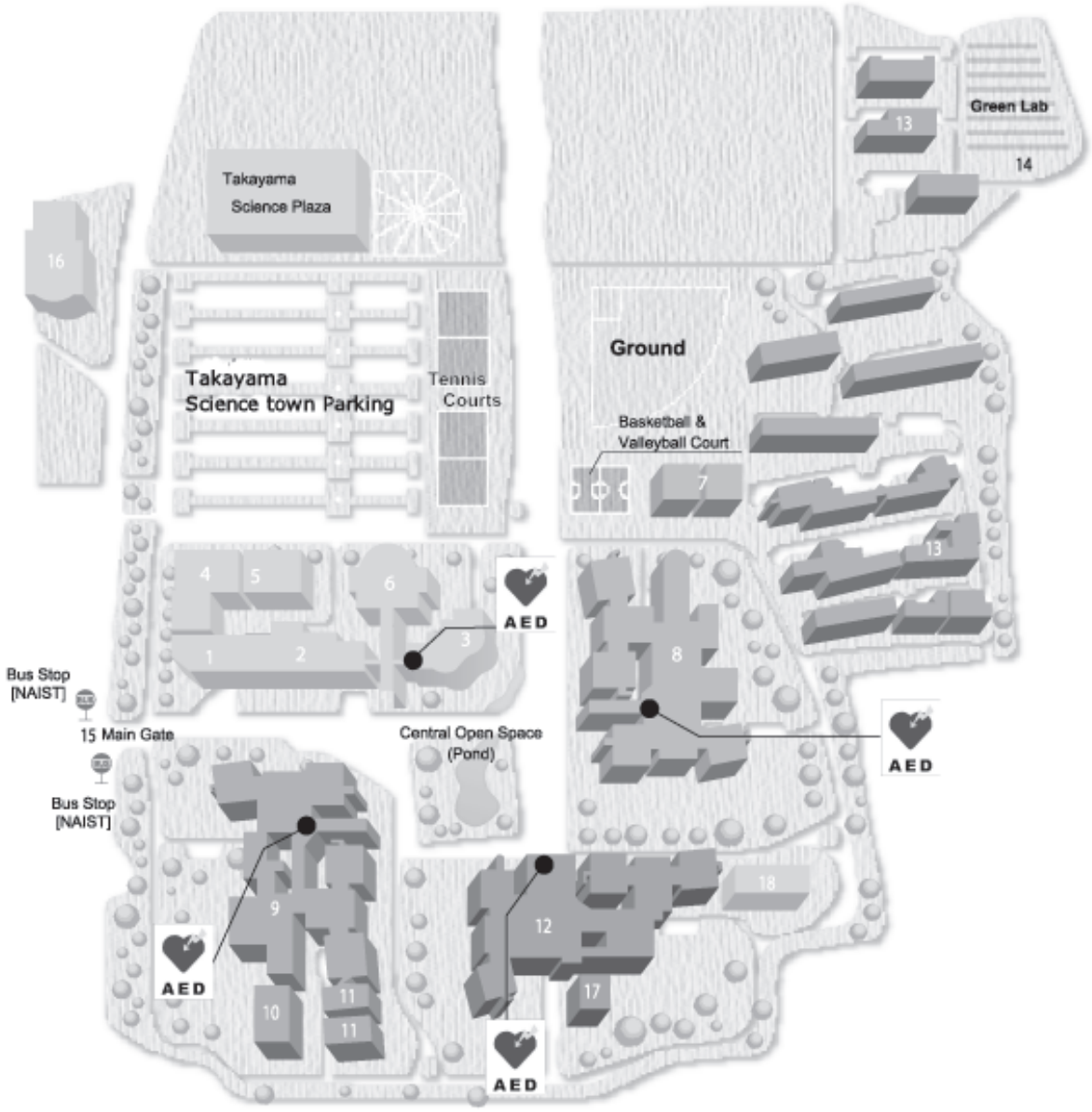
NAIST notifies students of necessary information by e-mail or through the bulletin board. Private notices will usually be sent by e-mail. Please check incoming e-mails carefully: If you overlook important information sent by NAIST such as a request to submit an application, you may suffer a disadvantage.

3. Website for students [https://ad-info.naist.jp/member/]

You can access the website for students by clicking “Internal Only” on NAIST’s website. This website contains various useful information, including announcements (the latest updates), Academic affairs (curriculum, notice to students for the academic records, changes of class schedule), an online English study system（ALC NetAcademy） and job information.

4. Consult Faculty members in charge of subjects if students cannot attend lectures and are possibility not to get credits due to unavoidable reasons including delayed public transportation, conference presentation, employment examinations, mourning, infectious disease and so on.

・Campus Map



①Administration Bureau
②Digital Library
③University Union / Health Care Center
④Center for Frontier Science and Technology / Center for Industry-Government-Academia Collaboration
⑤Interdisciplinary Frontier Research Complex No.2
⑥Millennium Hall
⑦Guesthouse Sentan
⑧Graduate School of Information Science
⑨Graduate School of Biological Sciences / Research and Education Center for Genetic Information
⑩Animal Experimentation Facility
⑪Botanical Greenhouses
⑫Graduate School of Materials Science / Research and Education Center for Materials Science
⑬Student Dormitories / Staff Residences
⑭Green Lab
⑮Main Gate
⑯Administration Bureau Annex
⑰Bio Nano Process Laboratory
⑱Interdisciplinary Frontier Research Complex No.1

XII Regulations of Nara Institute of Science and Technology, etc

In reference to the regulations of Nara Institute of Science and Technology as of April, 2016:

A. The current regulations are those as of March, 2016

B. The regulations as of March, 2016 will be revised in or after April, 2016.

C. For more information see the NAIST homepage.
（http://reiki.naist.jp/kiyaku/）

D. This translation is for reference purposes only. Should any discrepancies arise between the English and Japanese versions, the Japanese version is the authoritative version, thus the Japanese version will be deemed valid.

Regulations
of
Nara Institute of Science and Technology

April 1, 2004

Regulations No. 1

Table of Contents

I. General Provisions

Article 1 (Purpose)

Nara Institute of Science and Technology (“NAIST”) aims to promote cutting-edge research activities and train skilled personnel through advanced education based on the results of such research activities, thereby contributing to the advancement of science and technology and prosperity of society.

Article 2 (Self-assessment)

1. NAIST shall inspect and assess educational and research activities conducted internally ("Self-assessment") and make the results of the Self-assessment publicly available, in order to raise NAIST'S education and research standards and achieve the goals and social mission described in the foregoing article.
2. NAIST shall have the results of the Self-assessment examined by third party reviewers.
3. Matters concerning implementation of the Self-assessment shall be provided for separately.

Article 3 (Active provision of information)

NAIST shall actively provide information on its educational and research activities through publications or other suitable means.

II. Educational and Research Organization

Article 4 (University with graduate school curriculum)

NAIST is a university with graduate school curriculum only.

Article 5 (Graduate School and department)

The Graduate Schools of NAIST have the graduate schools and departments shown in the following table.

Graduate School	Department
Information Science	Information Science
Biological Sciences	Biological Sciences
Materials Science	Materials Science

Article 6 (Objectives of Graduate Schools)

Respective Graduate Schools shall have the following objectives concerning educational and research activities.

(1) Graduate School of Information Science

Promotes advanced research on information science, offers systematic education programs covering diverse fields related to information science (including information processing technology for assisting senses and judgments, technology for constructing large-scale information systems, technology for constructing and operating reliable information networks, and extensive interdisciplinary research involving information and life sciences), and thereby produces researchers capable of undertaking R&D to further today's information society future and engineers with advanced expertise.

(2) Graduate School of Biological Sciences

Promotes state-of-the-art research for elucidating the basic principles of life phenomena and biological diversity on molecular, cellular, and individual levels, and for utilizing these results to resolve the problems faced by the human society, offers systematic education programs covering diverse fields related to biological sciences, and thereby produces creative and leading-edge researchers and engineers with advanced expertise capable of promoting and utilizing biological sciences

(3) Graduate School of Materials Science

Elucidates structures and functions of materials on molecular, atomic, and electron levels, promotes creative research on materials science, and through systematic education programs covering diverse fields related to materials science thereby produces human resources (i) who are keenly interested in the problems faced by human society and the needs of industrial circles and are capable of undertaking creative and advanced research in materials science and interdisciplinary domains, and (ii) who assume active roles in fields of technological innovation and diverse sciences and technologies

Article 7 (Faculties)

1. The Graduate Schools have academic faculties.
2. Matters relating to academic faculties shall be provided for separately.

Article 8 (Courses and their purposes)

1. The Graduate Schools of NAIST have doctoral courses.
2. Each doctoral course consists of a first course ("Master's Course") and a latter course ("Doctoral Course").
3. The Master's Course aims to equip students with profound academic knowledge from broad perspectives, and help students develop the ability to conduct advanced research in their fields of specialty or engage in professions that require highly specialized skills.
4. The Doctoral Course aims to help students develop the ability to conduct advanced research activities on their own, and research skills of the highest level necessary for highly sophisticated professions, and to foster profound academic knowledge indispensable for such research activities and professions.

Article 9 (Information Initiative Center)

1. NAIST has an Information Initiative Center.
2. Information Initiative Center has a NAIST Library.
3. Matters relating to the Information Initiative Center shall be provided for separately.

Article 10 (Collaborative educational and research institutions)

1. NAIST has the following common educational and research institutions:

(1) Research and Education Center for Genetic Information
(2) Research and Education Center for Materials Science

2. Matters relating to the collaborative educational and research institutions shall be provided for separately.

Article 11 (Health Care Center)
1. NAIST has a Health Care Center.
2. Matters relating to the Health Care Center shall be provided for separately.

III. President, Vice President, Deans, etc.

Article 12 (Organization)
1. The organization of NAIST consists of the following members:
President
Vice President
Deans of Graduate Schools
Vice Deans of Graduate Schools
Director of Information iniTiative Center (ITC)
Director of Center for Frontier Science and Technology
Directors of collaborative educational and research facilities
Director of Research and Education Center for Genetic Information
Director of Research and Education Center for Materials Science
Director of Health Care Center
Faculty members
General staff members
Other staff members2. The faculty members of NAIST consist of professors, associate professors, lecturers, assistant professors, and research associates.
3. General staff members of NAIST consist of administrative staff, technical staff, nurses and academic staff.

Article 13 (President)
The President shall be responsible for management of internal affairs at NAIST and supervision of all faculty and staff members thereof.

Article 14 (Vice President)
The Vice President shall be responsible for supporting the President and, upon receiving authorization from the President, be responsible for management of affairs at NAIST.

Article 15 (Deans of Graduate Schools)
Each Dean shall be responsible for the administration of his or her Graduate School and the collaborative educational and research facilities associated therewith.

Article 16 (Vice Deans of Graduate Schools)
Each Vice Dean shall be responsible for supporting the Dean of his or her Graduate School.

Article 17 (Director of Information iniTiative Center (ITC))
The Director of the Information iniTiative Center (ITC) shall be responsible for administration of the Information iniTiative Center (ITC).

Article 18 (Directors of the collaborative educational and research facilities)
Directors of the collaborative educational and research facilities shall be responsible for affairs of their respective facility.

Article 19 (Director of Health Care Center)
The Director of the Health Care Center shall be responsible for its administration.

IV. Faculty Council

Article 20 (Faculty Council)
1. Each Graduate Schools has a Faculty Council.
2. The Faculty Councils shall be responsible for expressing opinions concerning the following items which the president deliberates:
(1) Student admission and course completion
(2) Degree conferment
(3) Arrangement of curriculum
(4) Student recognition and punishment
3. In addition to the items stipulated in the foregoing subsection, the Faculty Councils may also discuss the following areas concerning the education and research governed by the President and the Deans, and present opinions concerning these upon request of the president and/or Deans.
(1) Matters relating to student registration at and credits from other institutions
(2) Matters relating to the acceptance of special auditing students, special research students, non-degree students, research students and undergraduate internship students
(3) Matters relating to departmental agreements with institutions and private corporations
(4) Matters relating to laboratory establishment, reorganization and closing
(5) Matters relating to required Graduate School evaluation and assessments pertaining to university appraisal
(6) Other matters relating to education and research
4. Each of the Faculty Councils shall consist of full-time and associate professors engaged in educational or research activities of the relevant Graduate School. However, the Dean of the

Graduate School may invite faculty members involved in educational or research activities of other Graduate Schools to join its Faculty Council when deemed necessary.

5. Notwithstanding the provision of the foregoing subsection, members of the Faculty Council who are on an official trip abroad, on leave of absence or absent for other reasons may be removed from the Faculty Council.

6. The Dean of each Graduate School shall serve as Chairperson of the respective Faculty Council.

7. The Chairperson of each Faculty Council shall preside over the council's meetings.

8. In case the Chairperson has become unable to serve his or her role, the Vice Dean shall act as the chairman on his or her behalf.

9. For the Faculty Council meetings and resolutions to be valid, a majority of all the members thereof shall be present.

10. Resolutions at Faculty Council meetings shall be passed with assenting votes of a majority of the faculty members present at the meeting. In case of a tied vote, the Chairperson shall cast the deciding vote.

11. The Dean may invite individuals who are not Faculty Council members to attend council meetings if he or she deems it necessary to do so.

V. Admission Capacity and Enrollment Capacity

Article 21 (Admission and enrollment capacity)

The admission capacity and enrollment capacity of each Graduate School of NAIST shall be as shown in the attached table.

VI. Academic Year, Semesters, and Closed Days

Article 22 (Academic year)

1. At NAIST, the academic year shall commence on April 1 and end on March 31 of the following year.

2. Notwithstanding the provision of the foregoing subsection, the academic year shall commence on October 1 and end on September 30 of the following year for students who are admitted to NAIST in the autumn semester.

Article 23 (Semesters)

The academic year specified in the foregoing article shall consist of:

(1) Spring semester (from April 1 to September 30), and

(2) Autumn semester (from October 1 to March 31 of the following year).

Article 24 (Closed days)

1. NAIST shall be closed on the following days:
(1) Sunday and Saturday
(2) Days designated as national holidays under the Public Holiday Law (1948 Law No. 178)
(3) Anniversary of the founding of NAIST (October 1)
(4) Spring, summer and winter holidays
2. Details about the spring, summer and winter holidays in the foregoing subsection (4) shall be provided for separately.
3. The President may designate temporary closed day(s) if he deems it necessary to do so..
4. Regardless of Article 1, classes may be held on holidays when deemed necessary for educational purposes by the dean.

VII. Admission

Article 25 (Applicant qualifications)
1. Admission to the Master's Course is granted to individuals who:
(1) Have graduated from an university stipulated in Article 83-1 of the School Education Law (1947 Law No. 26)
(2) Have been awarded a bachelor's degree pursuant to Article 104-4 of the School Education Law
(3) Have completed the equivalent of a 16-year course of school education abroad
(4) Have taken a correspondence course in Japan offered by a foreign school, thereby completing a 16-year course of school education of the foreign country where the school is located
(5) Have completed a course of an educational institution that is recognized as offering a regular curriculum of a foreign university in compliance with the school education system of the country, and that is designated separately by the Minister of Education, Culture, Sports, Science and Technology, provided that completion of the said course shall constitute completion of a 16-year course of school education in the country
(6) Have completed the specialized course offered by a special training school that is designated separately by the Minister of Education, Culture, Sports, Science and Technology, on or after the day specified by the Minister, provided that the said course shall be a four-year or longer course, and meet all the other criteria set forth by the Minister
(7) Have been designated by the Minister of Education, Culture, Sports, Science and Technology, in accordance with Article 155-1 (6), of the Enforcement Regulations for the School Education Law (1947 Ordinance of the Ministry of Education No. 11)
(8) Fall into any of the following categories and are recognized by NAIST as having earned the necessary credits with outstanding academic grades:
(a) Individuals who have been enrolled in university for at least three years

(b) Individuals who have completed the equivalent of a 15-year course of school education abroad

(c) Individuals who have taken a correspondence course in Japan offered by a foreign school, thereby completing a 15-year course of school education of the foreign country where the school is located

(d) Individuals who have completed a course of an educational institution that is recognized as offering a regular curriculum of a foreign university in compliance with the school education system of the country, and that is designated separately by the Minister of Education, Culture, Sports, Science and Technology, provided that completion of the said course shall constitute completion of a 15-year course of school education in the country

(9) Have been enrolled in graduate school before pursuant to Article 102-2 of the School Education Law and are recognized by NAIST as having adequate academic ability to be educated at the Graduate School thereof

(10) Have been recognized by NAIST through an individual entrance screening as having academic ability equivalent to or greater than that of a university graduate and are at least 22 years of age

2. Admission to the Doctoral Course is granted to individuals who:

(1) Have been awarded a master's degree or a professional degree specified in Article 5-2 of the Rules for Degrees (1953 Ordinance of the Ministry of Education No. 9) pursuant to Article 104-1 of the School Education Law ("Professional Degree")

(2) Have been awarded a master's degree or other degree equivalent to a Professional Degree abroad

(3) Have been awarded a master's degree or other degree equivalent to a Professional Degree by completing a correspondence course in Japan offered by a foreign school

(4) Have been awarded a master's degree or other degree equivalent to a Professional Degree by completing a course of an educational institution in Japan that is recognized as offering a regular curriculum of a foreign graduate school in compliance with the school education system of the country, and that is designated separately by the Minister of Education, Culture, Sports, Science and Technology

(5) have completed their degree by March 2016 by graduating from the United Nations University established under the resolution of the United Nations General Assembly on December 11, 1972 as stipulated in subsection 2, Article 1 of the Special Measures Incidental to Enforcement of the Agreement between the United Nations and Japan regarding the Headquarters of the United Nations University Act (Act No.72 of 1976).

(6) have been recognized as having achieved at least the academic equivalence of a Master's degree through an educational program of ① a foreign educational institute, ② educational institutions which have received the designation in (4) above, or ③ the United Nations University and have passed the equivalent examination and screening process as stipulated in

the subsection 2, Article 16 of the Standards for the Establishment of Graduate School (Act No. 28, 1974).

(7) Have been designated by the Minister of Education, Culture, Sports, Science and Technology, in accordance with Article 155 (6), of the Enforcement Regulations for the School Education Law

(8) Have been recognized by NAIST through an individual entrance screening as having academic ability equivalent to or greater than that of a master's degree or Professional Degree holder and are at least 24 years of age

3. Methods for implementing entrance screening, etc., set forth in Paragraph 1 (10) and Paragraph 2 (6), hereof shall be stipulated separately by respective Graduate Schools.

Article 26 (Timing of admission)

Students shall be admitted to NAIST at the beginning of each semester.

Article 27 (Application for admission)

To apply for admission to NAIST, an admission application form shall be submitted together with designated documents to the President of NAIST.

Article 28 (Screening)

Applicants for admission to NAIST shall be screened by the procedures set forth separately.

Article 29 (Enrollment procedures and admission)

1. Applicants who have received notification of acceptance as a result of the screening specified in the foregoing article shall submit the designated documents to be admitted to NAIST.

2. The President shall admit applicants to NAIST upon completion of the procedures set forth in the foregoing subsection.

Article 30 (Admission to Doctoral Course)

Subject to screening by the Faculty Council of the relevant Graduate School, the President shall admit students to the Doctoral Course upon completion of the Master's Course of NAIST.

VIII. Standard Terms of Study and Maximum Years of Enrollment

Article 31 (Standard terms of study)

The standard terms of study at the Master's Course and Doctoral Course shall be two years and three years, respectively.

Article 32 (Maximum years of enrollment)

Maximum years of enrollment in the Master's Course and Doctoral Course shall be four years and six years, respectively.

IX. Education at Graduate Schools

Article 33 (Graduate school education)

Education at the Graduate Schools shall be provided by means of lectures on subjects and guidance on writing theses ("Research Guidance").

Article 34 (Courses, credits, and registration procedures)

The courses to be taught as set forth in the foregoing article, the credits allotted to the said courses, and registration procedures shall be provided for separately by each Graduate School.

Article 35 (Calculation of credits)

1. Based on the general rule that one credit shall be composed of a total of 45 hours of studying by students, the following basis shall be adopted for calculating credits at NAIST, taking into consideration the educational effects and hours required for off-campus studying, which vary depending on how the subject is taught:

(1) For lectures and seminars, one credit shall require from fifteen up to thirty class hours.

(2) For experiments and practical classwork, one credit shall require from thirty up to forty-five class hours.

(3) When a combination of two or more methods of lectures, seminars, experiments, or practical classwork is employed for a course, one credit shall consist of class hours determined in light of the standards stipulated in the foregoing two subsections, in accordance with the combination of such methods.

2. Notwithstanding the provision of the foregoing subsection, the number of credits to be allotted to thesis writing and thematic research may be determined upon consideration of the amount of study needed therefor, if it is deemed appropriate to award credits based on an evaluation of the results of the study.

Article 35-2 (Publication of Standards for Evaluating Grades)

1. A Graduate School shall present to its students, in advance, a clear outline of the methodology and contents of classes and Research Guidance, as well as a class and Research Guidance schedule for the year.

2. A Graduate School shall, when assessing its students' academic achievement and theses and approving their completion, present them with a clear outline of the standards therefor, in advance, so as to ensure objectivity and rigidity, and shall conduct an assessment and approval process appropriately in accordance with said standards.

Article 35-3 (Organized Training for Improving Educational Contents)

1. NAIST shall conduct organized training and research for improving the contents and

methodology used to give classes and Research Guidance.
2. Necessary matters related to organized training for improving educational contents shall be stipulated separately.

Article 36 (Awarding of credits)
Students who have completed each course can earn credits therefor upon passing the examination or acceptance of a research report.

Article 37 (Studying in another Graduate School of NAIST)
1. Students may take a course offered by another Graduate School of NAIST if the Dean of their Graduate School deems it educationally beneficial to do so.
2. Course credits that students have earned pursuant to the foregoing subsection may be counted toward degree credits specified in Article 41 or Article 42 to the extent permitted by their Graduate School.
3. Matters relating to taking of courses of other Graduate Schools shall be provided for separately.

Article 38 (Studying in another graduate school outside of NAIST)
1. Contingent on prior consultation with the graduate school offering classes, students may take a course offered by another graduate school outside of NAIST if the Dean of the their Graduate School deems it educationally beneficial to do so, subject to screening by the Faculty Council of the Graduate School.
2. Course credits that students have earned pursuant to the foregoing subsection shall be treated as credits earned internally, provided that the number of such credits shall not exceed ten.
3. The period of studying at another graduate school pursuant to subsection 1 of this Article shall be counted toward the period of study at NAIST.
4. The provisions of the foregoing three subsections shall apply to cases in which students take classes from ① a correspondence program offered by a foreign school in Japan ② a foreign graduate school in compliance with the school education system of that country, and that is designated separately by the Minister of Education, Culture, Sports, Science and Technology, or ③ the United Nations University graduate program.
5. Matters relating to taking of courses of other graduate schools shall be provided for separately.

Article 38-2 (Approval of credits for courses completed at a foreign university during a leave of absence)
1. Students may earn credits for courses completed at foreign universities during a leave of absence if the Dean of their Graduate School deems it educationally beneficial to do so, subject

to screening by the Faculty Council of the Graduate School.
2. Course credits that students have earned pursuant to the foregoing subsection shall be treated as credits earned internally, provided that the number of such credits shall not exceed ten.

Article 39 (Treatment of credits earned prior to admission to NAIST)
1. Credits that a student has earned at another graduate school prior to admission to NAIST, including credits that have been earned by the student as a non-degree student as defined in the Standards for the Establishment of Graduate Schools (1974 Ordinance of the Ministry of Education No. 28), may be treated as credits that have been earned by the student at NAIST after his or her admission thereto, if the Dean of the their Graduate School deems it educationally beneficial to do so, subject to screening by the Faculty Council of the Graduate School.
2. The number of credits that have been earned at another graduate school but are treated as having been earned at NAIST pursuant to the foregoing subsection shall not exceed ten.
3. Other matters relating to credits earned prior to admission to NAIST shall be provided for separately.

Article 40 (Research Guidance at another graduate school)
1. Contingent on prior consultation with the relevant graduate school or research institution, students may receive Research Guidance offered by another graduate school or research institution outside of NAIST as needed if their Dean deems it educationally beneficial to do so, subject to screening by the Faculty Council of their Graduate School. However, the period during which students enrolled in the Master's Course are allowed to receive Research Guidance at another graduate school or research institution shall not exceed one year.
2. Research Guidance that students receive from another graduate school or research institution pursuant to the foregoing subsection may be treated as Research Guidance received by the students at the Graduate School of NAIST.
3. The period during which students receive Research Guidance pursuant to subsection 1 of this Article shall be counted toward the period of study at NAIST.
4. Matters relating to Research Guidance at another graduate school or research institution shall be provided for separately.

X. Course and Degree Requirements

Article 41 (Requirements for completion of Master's Course)
1. To complete the Master's Course, students shall have been enrolled in the Master's Course for the standard term of study at the shortest, earn at least thirty credits in the subjects

designated by their Graduate School, receive necessary Research Guidance, and pass the master's thesis examination or final examination. However, students who have achieved outstanding research results may complete the Master's Course after having been enrolled in the said course for one year at the shortest, instead of the standard term of study.
2. Pursuant to the provision of the foregoing subsection, an examination of research results on specified themes may be conducted in place of the master's thesis examination if the Dean of the relevant Graduate School deems it appropriate to do so.

Article 42 (Requirements for completion of Doctoral Course)
1. To complete the Doctoral Course, students shall have been enrolled in the Doctoral Course for the standard term of study at the shortest, receive necessary Research Guidance, and pass the doctoral thesis examination or final examination. However, students who have achieved outstanding research results may complete the Doctoral Course after having been enrolled in the said course for one year at the shortest, instead of the standard term of study.
2. The part of the provision of the foregoing subsection that reads "However, students who have achieved outstanding research results may complete the Doctoral Course after having been enrolled in the said course for one year at the shortest, instead of the standard term of study" shall read "However, students who have achieved outstanding research results may complete the Doctoral Course after having been enrolled in the said course for the period of three years less the period of enrollment in the Master's Course at the shortest, instead of the standard term of study," to apply to students who have completed the Master's Course at NAIST in one year at the shortest pursuant to subsection 1 of Article 41, or who have completed the master's course of another graduate school outside of NAIST taking between one and two years.
3. Notwithstanding the provisions of the foregoing two subsections, for students who have been admitted to the Doctoral Course after having been recognized as having academic ability equivalent to or greater than that of a master's degree holder pursuant to Article 156 of the Enforcement Regulations for the School Education Law, the requirements for completion of the Doctoral Course shall be: enrollment in the said course for three years at the shortest, receipt of necessary Research Guidance, and passing of the doctoral thesis examination or final examination. However, students who have achieved outstanding research results may complete the Doctoral Course after having been enrolled in the said course for one year at the shortest, instead of three years.

Article 43 (Approval of completion)
Approval of completion of the Master's Course and Doctoral Course shall be given by the President, subject to screening by the Faculty Council of the relevant Graduate School.

Article 44 (Awarding of degrees)
1. Students who have completed the Master's Course or Doctoral Course shall be awarded a

master's degree or doctoral degree, respectively.
2. In addition to the provision of the foregoing subsection, a doctoral degree shall be awarded to individuals who have submitted a doctoral thesis to NAIST, passed the doctoral thesis examination and been recognized as having academic ability equivalent to or greater than that of an individual who has completed the Doctoral Course at NAIST.
3. Matters relating to awarding of degrees shall be provided for separately.

Article 45 (Timing of completion)
1. The Master's Course and Doctoral Course shall be completed at the end of each semester.
2. Notwithstanding the provision of the foregoing subsection, the Master's Course and Doctoral Course may be completed during a semester if deemed necessary by the President.

Article 46 (Teaching qualifications)
1. Students who wish to obtain teaching qualifications shall earn the credits specified by the Teacher's Certificate Law (1949 Law No. 147) and the Enforcement Regulations for the Teacher's Certificate Law (1954 Ordinance of the Ministry of Education No. 26).
2. Teaching qualifications that can be obtained at the Graduate Schools of NAIST are as shown in the following table.

Graduate School	Department	Teaching qualification	Subject
Information Science	Information Science	High school teacher's qualification	Information
Biological Sciences	Biological Sciences	Junior high school teacher's qualification High school teacher's qualification	Science Science
Materials Science	Materials Science	Junior high school teacher's qualification High school teacher's qualification	Science Science

XI. Leave of Absence, Study Abroad, Readmission, Transfer from/to another School, Transfer to another Graduate School within NAIST, Withdrawal, and Expulsion.

Article 47 (Leave of absence)
1. A student who must be absent from school for three consecutive months or longer due to illness, or for other reasons deemed justifiable by the President, may take a leave of absence with President's permission, following deliberation by the Faculty Council of his or her Graduate School.
2. The President may order a student who is recognized to be too ill to attend school to take leave of absence.

3. When the grounds for the leave of absence have been resolved, the student may return to school with permission of the President.
4. The period of leave of absence shall be up to one year, provided, however, that the said period may be extended for up to another one year if there is any justifiable reason.
5. The period of leave of absence shall not exceed two years in total during enrollment in the Master's Course or Doctoral Course, respectively.
6. Notwithstanding the provision of subsections 4 and 5, a student may be given special permission to take a leave of absence if deemed appropriate by the President.
7. The period of leave of absence shall not be counted toward the standard term of study specified in Article 31 and the minimum years of enrollment specified in Article 32.

Article 48 (Study abroad)
1. A student who wishes to study at a graduate school or research institution abroad shall obtain permission of the President in advance.
2. The provisions of Article 38 and Article 40 shall apply for the treatment of credits earned during study abroad.

Article 49 (Readmission)
1. An individual who withdrew or was expelled from NAIST in the past and wishes to be readmitted in the Graduate School of NAIST may be permitted to do so by the President, subject to screening by the Faculty Council of the relevant Graduate School, only if doing so is deemed not to interfere in any way with the educational and research activities of the Graduate School.
2. If readmission is permitted pursuant to the provision of the foregoing subsection, the Dean of the relevant Graduate School shall decide whether to count the credits earned during the previous enrollment and years of the previous enrollment toward course requirements, subject to screening by the Faculty Council.

Article 50 (Transfer from another Graduate school)
1. A student who is enrolled in another graduate school outside of NAIST and wishes to transfer to NAIST may be permitted to do so by the President, subject to screening by the Faculty Council of the relevant Graduate School, only if doing so is deemed not to interfere in any way with the educational and research activities of NAIST.
2. If transfer to NAIST is permitted pursuant to the provision of the foregoing subsection, the Dean of the relevant Graduate School shall decide whether to count credits earned during the previous enrollment and years of the previous enrollment toward course requirements, subject to screening by the Faculty Council.
3. The provisions of the foregoing two subsections shall apply to cases in which students are enrolled in a foreign graduate school in compliance with the school education system of that

country, and that is designated separately by the Minister of Education, Culture, Sports, Science and Technology (limited to schools stipulated in subsection 1, Article 102 of the School Education Law), or the United Nations University graduate program.

Article 51 (Transfer to a graduate school outside of NAIST)

1. A NAIST student who wishes to transfer to another graduate school outside of NAIST shall obtain permission of the President in advance.
2. If transfer to another Graduate School at NAIST is permitted pursuant to the provision of the foregoing subsection, the Faculty Council of the relevant Graduate School shall agree to count the credits earned during the previous enrollment and years of the previous enrollment toward course requirements.

Article 52 (Transfer to another Graduate School)

1. A student who is enrolled in a Graduate School at NAIST and wishes to transfer to another Graduate School at NAIST may be permitted to do so by the Dean of the Graduate School to which he or she wishes to transfer, subject to screening by the Faculty Council of the Graduate School, only if doing so is deemed not to interfere in any way with educational and research activities of the Graduate School.
2. If transfer to another Graduate School at NAIST is permitted pursuant to the provision of the foregoing subsection, the Faculty Council of the relevant Graduate School shall agree to count the credits earned during the previous enrollment and years of the previous enrollment toward course requirements.

Article 53 (Withdrawal)

A NAIST student who wishes to withdraw from NAIST shall obtain permission of the President in advance following deliberation by the Faculty Council of his or her Graduate School.

Article 53-2 (Expulsion)

A student shall be expelled from NAIST if he or she:

(1) Has been enrolled in NAIST for longer than the period specified in Article 32.
(2) Has been on leave of absence for longer than the period stipulated in Article 47, subsections 5 and 6.
(3) Has failed to pay the admission fee by the due date if the student has not been exempted from payment of the admission fee, has been exempted from payment of part of admission fee, has been allowed delayed payment of the admission fee, or has the payment exemption withdrawn.
(4) Has failed to pay the tuition fee by the due date and still not paid it even after receiving a reminder.
(5) Has been declared missing.

(6) Has deceased

XII. Entrance Examination, Admission and Tuition Fees

Article 54 (Amounts of the entrance examination, admission and tuition fees)
The amounts of the entrance examination, admission and tuition fees shall be as shown in the following table.

Entrance examination fee	Admission fee	Annual tuition fee
30,000 yen	282,000 yen	535,800 yen

Article 55 (Payment of the entrance examination fee)
1. Individuals who apply for admission, readmission or transfer to NAIST shall submit an application form and pay the entrance examination fee at the same time.
2. Notwithstanding the provision of the foregoing subsection, students who apply for admission by recommendation in accordance with Article 4 of MEXT Guidelines for International Scholarship Student System Implementation shall not have to pay entrance examination fees.

Article 56 (Payment of the admission fee)
1. Individuals who are to be admitted, readmitted or transferred to NAIST shall pay the admission fee by the due date specified by NAIST.
2. Notwithstanding the provision of the foregoing subsection, MEXT Scholarship Students (as defined in Article 2 of MEXT Guidelines for International Scholarship Student System Implementation) shall not have to pay admission fees.

Article 57 (Payment of the tuition fee)
1. Students shall pay the annual tuition fee in two equal installments for the spring semester (from April to September) and the autumn semester (from October to March of the following year).
2. The due dates of the tuition payment shall be in May and November except when delayed payment is permitted pursuant to the provision of Article 63.
3. Notwithstanding the provisions of the foregoing two subsections, students, by submitting an application, may pay the tuition fee for the autumn semester at the same time as paying the tuition fee for the spring semester.
4. Notwithstanding the provisions of subsections 1 and 2 above, students may, by submitting an application, pay the tuition fee for the spring semester or for the spring and autumn semesters of the year of admission, at the time when accepted for admission.
5. Notwithstanding the provision of subsection 1, MEXT Scholarship Students (as defined in Article 2 of MEXT Guidelines for International Scholarship Student System Implementation)

shall not have to pay tuition.

Article 58 (Amount and payment of the tuition fee in case of re-enrollment)
In case of re-enrollment, transfer from another school, and readmission ("Re-enrollment") during the spring or autumn semester, the tuition fee shall be paid in an amount of one twelfth of the annual tuition fee ("Monthly Fee") multiplied by the number of months from the month of Re-enrollment to the month preceding the next tuition payment. Payment shall be made in the month of Re-enrollment.

Article 59 (Amount of the tuition fee in case of completion of the course before the end of the academic year)
In case of completion of the course before the end of the academic year due to special circumstances, the tuition fee shall be paid in an amount of the Monthly Fee multiplied by the number of months of enrollment in NAIST.

Article 60 (Amount of the tuition fee in case of leave of absence)
1. Payment of tuition fee is not required during leave of absence.
2. The amount of the tuition fee for which payment is not required shall be the Monthly Fee multiplied by the number of months from the month following the leave of absence to the month preceding Re-enrollment.

Article 61 (Amount of the tuition fee in case of withdrawal)
1. In case of withdrawal, whether voluntary or forced, transfer to another school, or expulsion from NAIST during a spring or autumn semester, the tuition fee for the entire semester shall be paid.
2. The tuition of students which have been suspended shall be collected for the duration of the suspension.
3. Notwithstanding the provision of subsection 1, the tuition to be collected from students who have been removed from enrollment due to death or disappearance will be recalculated according to the number of months enrolled.

Article 62 (Exemption from payment of admission and tuition fees)
Students may be exempted from payment of all or part of the admission fee or allowed delayed payment thereof if he or she has difficulties paying the admission fee for financial reasons and also is recognized as having outstanding academic ability, or if he or she has other justifiable reasons.

Article 63
Students may be exempted from payment of all or part of the tuition fee or allowed delayed payment thereof if he or she has difficulties paying the tuition fee for financial reasons and also

is recognized as having outstanding academic ability, or if he or she has other justifiable reasons.

Article 64
Matters relating to exemption of payment of admission and tuition fees and delayed payment thereof shall be provided for separately.

Article 65 (Treatment of entrance examination, admission and tuition fees once paid)
1. Once paid, entrance examination, admission and tuition fees cannot be refunded.
2. Notwithstanding the provision of the foregoing subsection, the tuition fee shall be refunded in the following cases.
(1) If a student who paid the tuition fees for both the spring and autumn semester at the same time pursuant to the provision of Article 57 subsection 3 above is to withdraw from NAIST before September 30 of that school year, the tuition fee for the autumn semester shall be refunded.
(2) If a student who paid the tuition fee at the time when he or she was accepted for admission pursuant to the provision of Article 57-4 above declares his or her intention to decline the acceptance by the last day of the month preceding the admission, the amount equivalent to the paid tuition fee shall be refunded.
(3) If a student who paid tuition fees pursuant to the provision of Article 57 is to complete his or her course before the end of the academic year due to special circumstances, the amount of the paid tuition fee less the Monthly Fee multiplied by the number of months of enrollment shall be refunded.
(4) If a student who paid tuition fees is to take leave of absence, the amount specified in Article 60-2 shall be refunded.
(5) In the case of removal from enrollment due to death or disappearance, tuition paid shall be refunded after deducting for the partial enrollment period.

XIII. Special Auditing Students, Special Research Students, Non-Degree Students, Research Students and Undergraduate Internship Students

Article 66 (Special auditing students)
1. Contingent on consultation with the students' graduate school, students enrolled in another graduate school outside of NAIST, whether domestic or foreign, may be admitted to NAIST as special auditing students to take a course at the relevant Graduate School of NAIST if deemed beneficial for educational purposes by the Dean of the relevant Graduate School, subject to screening by the Faculty Council.
2. Matters relating to special auditing students shall be provided for separately.

Article 67 (Special research students)

1. Contingent on consultation with the students' graduate school, students enrolled in another graduate school outside of NAIST, whether domestic or foreign, may be admitted to NAIST as special research students to receive Research Guidance at the relevant Graduate School of NAIST if deemed beneficial for educational purposes by the Dean of the relevant Graduate School, subject to screening by the Faculty Council.

2. Matters relating to special research students shall be provided for separately.

Article 68 (Non-degree students)

1. Individuals who are not NAIST students but wish to study one or more elective subjects at the Graduate School of NAIST may be admitted to NAIST as non-degree students and awarded credits only if doing so is deemed not to interfere in any way with the educational and research activities of the Graduate School by the Dean of the Graduate School, subject to screening by the Faculty Council.

2. Matters relating to non-degree students shall be provided for separately.

Article 69 (Research students)

1. Individuals who wish to conduct research on a specific theme at a Graduate School of NAIST may be admitted to NAIST as research students only if doing so is deemed not to interfere in any way with the educational and research activities of the Graduate School by the Dean of the relevant Graduate School, subject to screening by the Faculty Council.

2. Matters relating to research students shall be provided for separately.

Article 69-2 (Undergraduate internship students)

1. Contingent on consultation with the students' university or institution, students enrolled in another university (including foreign universities) or technical college may be admitted to NAIST as undergraduate internship students to receive academic guidance in a NAIST graduate school if deemed beneficial for educational purposes by the Dean of the relevant Graduate School, subject to screening by the Faculty Council.

2. Matters relating to undergraduate internship students shall be provided for separately.

XIV. Rewards and Punishments

Article 70 (Rewards and punishments)

1. Students may be recognized by the President for outstanding achievements and valuable contributions, subject to screening by the Faculty Council.

2. The President may take disciplinary measures against students who have acted against the rules of NAIST or who have materially disturbed the educational and research activities of NAIST, following deliberation by the Faculty Council of the relevant Graduate School.

3. The disciplinary measures set forth in the foregoing subsection shall mean forced withdrawal, suspension from NAIST, and warning.
4, The period of suspension shall be subtracted from the maximum period of study stipulated in Article 32, but not added to the standard period of study stipulated in Article 31. However, if the period of suspension is less than three months, the semester shall be added to the standard period of study.

XV. Student Dormitories

Article 71 (Student dormitories)
1. NAIST has student dormitories.
2. Matters relating to the student dormitories shall be provided for separately.

XVI. Open Lectures

Article 72 (Open lectures)
1. NAIST may offer open lectures with a view to educating the public and contributing to cultural enrichment.
2. Matters relating to the open lectures shall be provided for separately.

XVII. Special Programs

Article 73 (Special programs)
1. NAIST may organize special programs for individuals who are not NAIST students and issue certificates certifying the successful participant's course completion.
2. Matters relating to the implementation of the foregoing subsection shall be provided for separately.

Supplementary provisions
(Effective date)
1. These Regulations shall come into effect on April 1, 2004.
(Transitional measures)
2. In case of amendment of the Regulations of the Nara Institute of Science and Technology, the Regulations before the amendment shall remain applicable to the students who are enrolled in NAIST as of March 31, 2004 ("Existing Students") and also to the students who are readmitted or transferred to NAIST after April 1, 2004 if they are in the same grade as the Existing Students.

Supplementary provision

These Regulations shall come into effect on April 1, 2005.

Supplementary provision

These Regulations shall come into effect on April 21, 2005, while the Regulations of the Nara Institute of Science and Technology as amended hereunder shall be applied from April 1, 2005.

Supplementary provision

These Regulations shall come into effect on November 17, 2005.

Supplementary provision

These Regulations shall come into effect on April 1, 2007.

Supplementary provision

These Regulations shall come into effect on January 24, 2008, while the Regulations of the Nara Institute of Science and Technology as amended hereunder shall be applied from December 26, 2007.

Supplementary provision

These Regulations shall come into effect on April 1, 2009.

Supplementary provision

These Regulations shall come into effect on April 1, 2010.

Supplementary provision

These Regulations shall come into effect on December 1, 2010.

Supplementary provision

These Regulations shall come into effect on December 1, 2010.

(Effective date)

1. These Regulations shall come into effect on April 1, 2010.

2. Notwithstanding the provision of revised Article 5, the Graduate School of Information Science Department of Information Processing, Department of Information Systems and Department of Bioinformatics and Genomics, along with Graduate School of Biological Science Department of Cell Biology and Department of Molecular Biology shall be maintained until the students enrolled in these departments as of March 31, 2011 are no longer enrolled.

(Enrollment capacity for 2011, 2012 school year)

3. Notwithstanding the provision of Article 21, the enrollment capacity for the 2011 and 2012 school years shall be as shown in the following table.

Fiscal Year	Graduate school	Department	Admission capacity		Enrollment capacity
			Master's Course	Doctoral Course	
2011	Information Science	Information Science	135	40	175
		Information Processing			96
		Information Systems			77
		Bioinformatics and Genomics			59
		Total	135	40	407
	Biological Sciences	Biological Sciences	125	37	162
		Cell Biology			81
		Molecular Biology			101
		Total	125	37	344
2012	Information Science	Information Science	135	40	350
		Information Processing			18
		Information Systems			14
		Bioinformatics and Genomics			11
		Total	135	40	393
	Biological Sciences	Biological Sciences	125	37	324
		Cell Biology			15
		Molecular Biology			19
		Total	125	37	358

(Transitional measures concerning attainable qualifications for teacher licensing at the Graduate Schools)

4. Notwithstanding the provision of revised Article 46 subsection 2, the types and subjects of teaching licenses attainable at the departments in supplementary provision 2 shall depend upon previously offered licensing.

Supplementary provision

These Regulations shall come into effect on April 1, 2011.

Supplementary provision

These Regulations shall come into effect on April 1, 2012.

Supplementary provision

These Regulations shall come into effect on June 1, 2012.

Supplementary provision

These Regulations shall come into effect on February 1, 2013.

Supplementary provision

These Regulations shall come into effect on April 1, 2013.

Supplementary provision

These Regulations shall come into effect on April 1, 2014.

Supplementary provision

These Regulations shall come into effect on December 1, 2014.

Supplementary provision

These Regulations shall come into effect on April 1, 2015

Supplementary provision

These Regulations shall come into effect on November 26, 2015

Schedule (supplementary to Article 21)

Graduate school	Department	Admission capacity		Enrollment capacity
		Master's Course	Doctoral Course	
Information Science	Information Science	135	40	390
Biological Sciences	Biological Sciences	125	37	361
Materials Science	Materials Science	90	30	270
Total		350	107	1,021

Regulations for Student Commendation of Nara Institute of Science and Technology

December 7, 2004
Regulations No. 89

Article 1 (Purpose)
The purpose of these Regulations is to stipulate matters relating to commendation of performance worthy of public recognition that has been achieved by students (including groups of students) of the Nara Institute of Science and Technology ("NAIST") pursuant to the provision of Article 70 of the NAIST Regulations.

Article 2 (Commendation criteria)
1. NAIST shall commend students for:
(1) Hard work in academic studies that sets a good example for other students;
(2) Remarkable performance achieved in academic and research activities;
(3) Remarkable performance achieved in social activities;
(4) Remarkable performance achieved in extracurricular and other activities; or
(5) Other conduct judged to be worthy of public recognition.
2. Students to be commended pursuant to the foregoing subsection shall include those who are dead at the time of commendation.

Article 3 (Nomination)
Administrative staff or the Dean of the relevant Graduate School shall submit a letter of nomination (Form No. 1 attached hereto) to the President to recommend a student who is deemed to meet any of the commendation criteria specified in the foregoing subsection for commendation.

Article 4 (Decision on commendation of student)
The President shall decide whether to commend the student based on the nomination specified in the foregoing article.

Article 5 (Commendation)
1. The President shall award a certificate of commendation (Form No. 2 attached hereto) to the student whom it was decided should be commended pursuant to the provision of the foregoing article.
2. The President may present a commemorative gift to the student in addition to the certificate of commendation specified in the foregoing subsection.

Article 6 (Timing of commendation)
The President shall determine the timing of commendation, in consideration of the timing of the degree conferring ceremony or the nature of the commendation.

Article 7 (Clerical work)
The Educational Affairs Division of the Planning and Academic Affairs Department shall be responsible for handling clerical work necessary for student commendations.

Article 8 (Miscellaneous provision)
Other matters relating to student commendations shall be provided for separately.

Supplementary provision
These Regulations shall come into effect on December 7, 2004.

Supplementary provision
These Regulations shall come into effect on November 15, 2006 and be retrospectively applied from April 1, 2006.

Supplementary provision
These Regulations shall come into effect on July 26, 2007 and be retrospectively applied from April 1, 2007.

Supplementary provision
These Regulations shall come into effect on April 1, 2015.

Regulations for NAIST Excellent Student Scholarship Program

September 21, 2010
Regulations No. 4

Article 1 (Objective)
These regulations provide for necessary matters regarding the scholarship program that is intended to help develop excellent human resources by giving incentives to and supporting excellent students of Nara Institute of Science and Technology (hereinafter referred to as "NAIST").

Article 2 (Name)
The name of the scholarship program shall be the NAIST Excellent Student Scholarship Program.

Article 3 (Qualified students)
Students qualified to receive scholarships under the scholarship program (hereinafter referred to as "qualified students") shall be students who are enrolled in the first year of a doctoral course at NAIST in an academic year in which qualified students are selected (hereinafter referred to as "the academic year") and whose academic performance is outstanding and whose character is excellent, excluding foreign students financed by the Japanese government and those selected for the NAIST International Scholar Program.

Article 4 (Maximum number of qualified students)
The maximum number of qualified students shall be 15 in each academic year.

Article 5 (Method of scholarship support)
The scholarship support shall be provided in the form of exemption from payment of all tuition fees for the academic year.

Article 6 (Timing of selecting qualified students)
Qualified students shall be selected in April.

Article 7 (Notification of the number of scholarship candidates subject to recommendation)

The President shall set the number of candidates for qualified students (hereinafter referred to as "scholarship candidates") subject to recommendation for each graduate school and notify the deans in advance.

Article 8 (Selection of scholarship candidates)

1. The deans shall set the criteria for screening scholarship candidates (hereinafter referred to as "the screening criteria"), announce on campus the screening criteria together with the number of candidates for qualified students, and solicit applications for scholarship candidates.

2. The deans shall select scholarship candidates from among the applicants based on the screening criteria set forth in the preceding paragraph, and recommend the scholarship candidates to the President, also providing the screening criteria and the order of recommendation.

Article 9 (Screening of qualified students)

1. The President shall set up a NAIST Excellent Student Screening Committee (hereinafter referred to as "the Committee") to screen qualified students based on the deans' recommendations.

2. The Committee shall consist of the following members:

(1) President

(2) Executive Director appointed by the President

(3) Vice President appointed by the President

(4) Deans

3. The Committee shall have a chairperson, who shall be the President.

4. The chairperson shall preside over the meetings of the Committee.

5. If the chairperson becomes unable to serve, a Committee member appointed by the chairperson in advance shall perform the duties of the chairperson.

6. If the chairperson finds it to be necessary, individuals other than Committee members set forth in Paragraph 2 shall be allowed to attend the Committee meetings.

Article 10 (Selection of qualified students)

1. The President shall select qualified students based on screening by the Committee.

2. The President shall notify the deans of the screening results, and announce the screening results on campus.

Article 11 (Commendation and presentation session)
The President shall commend qualified students, and shall host a presentation session by the qualified students.

Article 12 (Clerical work)
Clerical work regarding the scholarship program shall be undertaken by the Educational Affairs Division of the Planning and Academic Affairs Department.

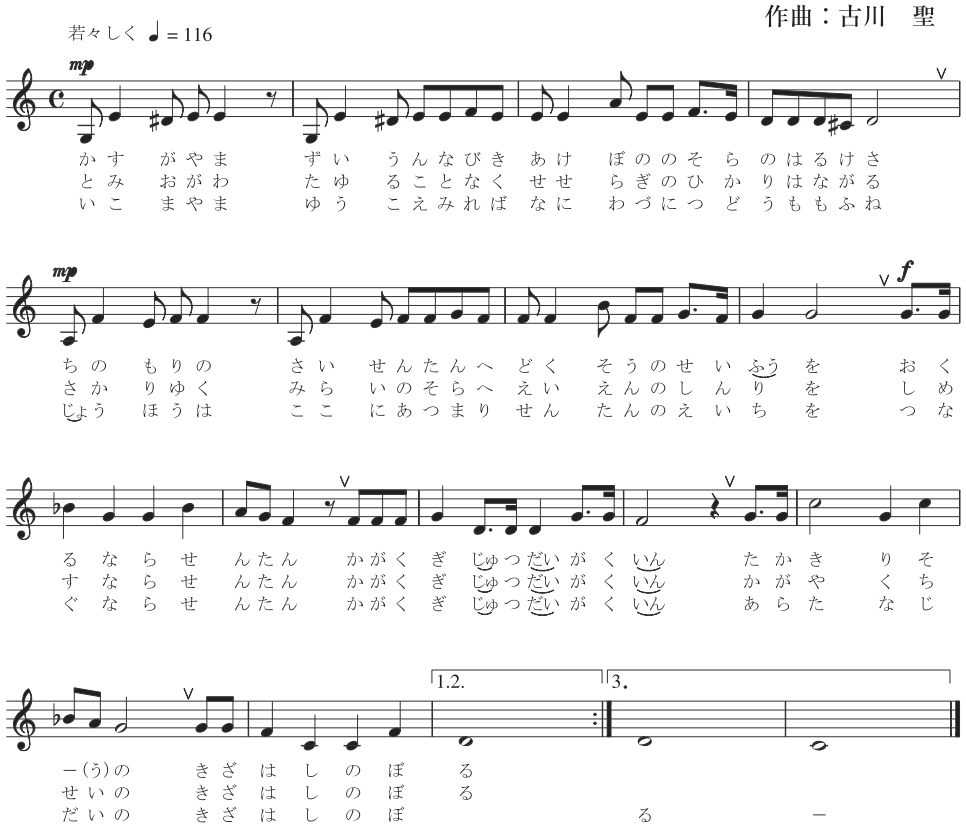
Article 13 (Miscellaneous provisions)
In addition to the matters provided for in these regulations, necessary matters concerning the scholarship program shall be provided for separately.

Supplementary provisions
1 (Effective date)
These regulations shall come into effect on October 1, 2010.
2 (Transitional measures)
For academic year 2010 alone, the scholarship support shall be provided in the form of exemption from payment of half the tuition fees for the academic year regardless of the provisions of Article 5, and qualified students shall be selected in October regardless of the provisions of Article 6.

Supplementary provisions
These regulations shall come into effect on April 1, 2015.

奈良先端科学技術大学院大学　学歌

作曲：古川　聖



奈良先端科学技術大学院大学学歌

一、春日山　瑞雲なびき
あけぼのの　空の遙けさ
知の森の　最先端へ
独創の　清風を送る
奈良先端科学技術大学院
高き理想の階のぼる

二、富雄川　絶ゆることなく
せせらぎの　光は流る
盛りゆく　未来の蒼天へ
永遠の　真理を示す
奈良先端科学技術大学院
輝く知性の階のぼる

三、生駒山　夕越え見れば
難波津に　集う百船
情報は　平城に集まり
先端の　叡知を繋ぐ
奈良先端科学技術大学院
新たな時代の階のぼる

原作:岡部　剛機

Information Science