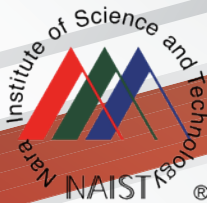


Nara Institute of Science and Technology

# Student Handbook 2021



# 2021年度カレンダー

## Monthly Calendar

### 2021 4月

日	月	火	水	木	金	土
28	29	30	31	1	2	3
4	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	1

### 5月

日	月	火	水	木	金	土
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
<del>23/30</del>	<del>24/31</del>	25	26	27	28	29

### 6月

日	月	火	水	木	金	土
30	31	1	2	3	4	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	1	2	3

### 7月

日	月	火	水	木	金	土
27	28	29	30	1	2	3
4	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

### 8月

日	月	火	水	木	金	土
1	2	3	4	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	1	2	3	4

### 9月

日	月	火	水	木	金	土
29	30	31	1	2	3	4
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	1	2

### 10月

日	月	火	水	木	金	土
26	27	28	29	30	1	2
3	4	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	<del>30/31</del>

### 11月

日	月	火	水	木	金	土
31	1	2	3	4	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	1	2	3	4

### 12月

日	月	火	水	木	金	土
28	29	30	1	2	3	4
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	1

### 2022 1月

日	月	火	水	木	金	土
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
<del>23/30</del>	<del>24/31</del>	25	26	27	28	29

### 2月

日	月	火	水	木	金	土
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	1	2	3	4	5

### 3月

日	月	火	水	木	金	土
27	28	1	2	3	4	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	1	2

## 2021 NAIST Academic Calendar

Semester	Date	Activities
Spring Semester	April 1st (Thu.)	Orientation for new master's course students
	April 5th (Mon.)	Entrance ceremony Introduction of laboratories (Information Science) Orientation for new doctoral course students
	April 6th (Tue.)	Introduction of laboratories (Information Science, Materials Science)
	April 7th (Wed.)	Introduction of laboratories (Biological Science, Materials Science)
	April 8th (Thu.) - June 30th (Wed.)	First quarter
	May 26th (Wed.) - May 28th (Fri.)	Health examination (No lectures)
	June 25th (Fri.)	Graduation ceremony
	July 1st (Thu.) - September 30th (Thu.)	Second quarter
	July 5th (Mon.) - July 10th (Sat.)	1st entrance exam for master's course (No lectures)
	August 7th (Sat.) - September 30th (Thu.)	Summer vacation
	September 24th (Fri.)	Graduation ceremony
Fall Semester	October 1st (Fri.)	NAIST Foundation Day
	October 4th (Mon.)	Entrance ceremony (Fall enrollment) Orientation for new students
	October 4th (Mon.) - December 24th (Fri.)	Third quarter
	October 12th (Tue.) - October 14th (Thu.)	2nd entrance exam for master's course (No lectures)
	December 22nd (Wed.)	Graduation ceremony
	December 25th (Sat.) - January 3rd (Mon.)	Winter vacation
	January 4th (Tue.) - February 22nd (Tue.)	Fourth quarter
	March 24th (Thu.)	Graduation ceremony
March 25th (Fri.) - March 31st (Thu.)	Spring vacation	

\* In principle, no classes will be held on the days of the health examinations.

\* In principle, classes will not be held during the 1st and 2nd entrance exams for the master's course.

### Lecture Time

1st Period	9:20 - 10:50 (90 minutes)
2nd Period	11:00 - 12:30 ( " )
3rd Period	13:30 - 15:00 ( " )
4th Period	15:10 - 16:40 ( " )
5th Period	16:50 - 18:20 ( " )
6th Period	18:30 - 20:00 ( " )

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## 1 Educational policies of the Nara Institute of Science and Technology

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## 1 Educational policies of the Nara Institute of Science and Technology

### **1 – 1. Objectives, Educational mission, Objectives for individual development, Educational policy**

#### ○Objectives

As a graduate institution without undergraduate courses, NAIST promotes cutting edge research and offers a sophisticated outcome-based education for each student so as to contribute to the advancement of science and technology and of society as a whole.

#### ○Educational mission

NAIST was founded in October 1991 as a graduate institution which educates individuals who will contribute to the development of advanced science and technology. Research and education at NAIST covers the three core areas: information science, biological science and materials science.

In order to realize 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 science and materials science, we actively encourage interdisciplinary research and provide educational training in the principles of ethics and intellectual property.

#### ○Objectives for student development

Education and research in NAIST master's course cultivate sophisticated expertise and personal initiative to support society and the economy. The doctoral courses are designed to nurture students to become researchers and engineers with the drive to seek new frontiers in science and technology and to take on leading roles internationally.

#### ○Educational policy

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

Educational programs to produce human resources who will pursue new interdisciplinary research fields are executed and those to produce human resources with a thorough, globally-focused understanding, which include collaborative programs with our overseas education and research partners, are offered.

Internal and external evaluations are implemented to continuously improve the quality of education, while enrichment of the education and research environments and the financial support for talented students are being promoted.

## 1 – 2. Admission Policy

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### <Master's course>

#### ○Prospective students

We are looking for students, researchers or engineers who have fundamental academic skills, a clear vision, a resolve toward the future, and a strong interest in and motivation for advanced science and technology, regardless of their background or undergraduate major. Especially, we actively accept applicants who have the ability to reason logically and accurately express their thoughts, and those who are very inquisitive and have the ability to tackle challenges.

#### ○Basic admissions policy

In order to select outstanding persons with the above qualifications both domestically and abroad, we stress assessment of applicants' character and capability. There are various routes for admission, including examinations centered upon interviews as well as examinations based on recommendations.

### <Doctoral course>

#### ○Prospective students

We are looking for students, researchers or engineers who have fundamental academic skills, a clear vision, a resolve toward the future and a strong interest and motivation for advanced science and technology regardless of their background. Especially, we actively accept applicants who have a strong interest in making the best use of their wide breadth of expertise to solve various problems facing society, and are aiming to be active in various fields of advanced science and technology.

#### ○Basic admissions policy

In order to select outstanding persons with the above qualifications both domestically and abroad, we stress assessment of applicants' character and capability. There are various routes for admission, including examinations centered upon interviews as well as examinations based on recommendations.

### 1 – 3. Diploma Policy

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While NAIST has positioned the three advanced science and technology fields—information science and engineering, biological science, and materials science and engineering—as its core fields, it also actively explores the related interdisciplinary fields and fosters scholars with both a deep understanding of their own specialization and thorough knowledge of the related fields that will contribute to leading the next generation of advanced science and technology from the holistic perspectives, the spirit of challenge, well-roundedness, interdisciplinary understanding, and a global perspective in order to respond to social demands towards the complex and progressing advanced science and technology. NAIST operates an accredited degree-granting process based on an educational program to achieve these objectives and a multifaceted educational research advising body structure (multiple faculty members with different viewpoints advise and guide students).

#### <Master's course>

Master's degrees shall be awarded to students who have been enrolled in the course for the stipulated period, acquired the necessary credits by completing subjects established according to the curriculum policy, and passed the review and examination of a master's thesis, special extended essay, or extended essay written under the necessary research guidance, while also having achieved the goals as shown below.

1. To acquire the expertise and skills to understand the broad basic concepts of advanced science and technology fields (information science and engineering, biological science, material science and engineering, and their interdisciplinary fields) from a holistic and comprehensive point of view to be able to pursue problem solving.
2. To acquire the skills to set an agenda and topic in a specific field to conduct research or technical development, as well as the ability to apply these to interdisciplinary research and development in other fields.
3. To acquire global communication skills and a holistic perspective, and the ability to exercise leadership in research and development in advanced science and technology fields.
4. To acquire high ethical and scientific perspectives in research and development in advanced science and technology fields.
5. The master's thesis, special extended essay, or extended essay written produces results that contribute to advanced science and technology academically or in application.

A master's degree in engineering, science, or biological science is awarded by considering a combination of the subjects completed and the content of the master's thesis, special extended essay, or extended essay.

## &lt;Doctoral course&gt;

Doctor's degrees shall be awarded to students who have been enrolled in the course for the stipulated period, acquired the necessary credits by completing subjects established according to the curriculum policy, and passed the review and examination of a doctoral thesis written under the necessary research guidance, while also having achieved the goals as shown below.

1. To acquire sophisticated expertise and skills to understand the broad theory and structures of advanced science and technology fields (information science and engineering, biological science, material science and engineering, and their interdisciplinary fields) from a holistic and comprehensive point of view to challenge solving difficult problems.
2. To acquire the skills and the spirit of challenge to actively and independently promote the identification and resolution of problems in a specific field, as well as to lead new interdisciplinary research and development in other fields.
3. To acquire sophisticated global communication skills and a holistic perspective, and the ability to exercise international leadership in a global environment in advanced science and technology field research and development.
4. To acquire high ethical and scientific perspectives in research and development in advanced science and technology fields.
5. The doctoral thesis written produces particularly excellent research results that contribute to advanced science and technology academically or in application.

A doctor's degree in engineering, science, or biological science is awarded by considering a combination of the classes taken and the content of the doctoral thesis.

## 1 – 4. Curriculum Policy

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In order to achieve the goals set forth in the diploma policy, the Department of Science and Technology maintains a structured educational program that focuses on the acquisition of specialized knowledge in information, biological and materials sciences, and their interdisciplinary fields of research, while also equipping students with the spirit of challenge, well-roundedness, interdisciplinary understanding, and the global perspectives necessary for human resources who will contribute to the development of the next generation of advanced science and technology, and the activities and developments in both industry and society. With a strong emphasis on the interdisciplinary developments of existing research fields, programs with a high degree of flexibility and an interdisciplinary focus to accommodate students' career and future objectives have been established in the master's course, and programs focusing on the development of internationally adept students who are independent and self-reliant have been established in the doctoral course.

### <Master's course>

1. Introductory subjects for learning the general science and technology trends necessary for studying advanced science and technology and holistic comprehension
2. Subjects with balanced content for students from diverse academic backgrounds to provide basic knowledge of advanced science and technology and to develop comprehensive understanding
3. Subjects to provide highly specialized knowledge concerning advanced science and technology
4. PBL subjects to develop the ability to grasp issues comprehensively, to discover and solve problems in cooperation with others, and to foster a sense of challenge
5. Subjects to improve the presentation and communication skills necessary to be active professionally in society.
6. Through cooperation with industry and government, subjects to foster the ability to understand science and technology issues and their roles within industrial and societal activities
7. Subjects to improve the communication skills required of researchers and engineers, English communication skills for Japanese students and Japanese communication skills for international students
8. Subjects to enhance the ethical thinking and the perspectives of societal trends required for researchers and engineers

The learning outcomes of each of these subjects shall be evaluated based on the results of written tests, reports, exercises, experiments, practical work, etc.

9. Importance is placed on active engagement in research tasks that contribute to advanced science and technology academically or in application to write a master's thesis, a special

extended essay, or an extended essay through seminars and research guidance. Through this, the acquisition of research or technology development skills are achieved and the spirit of challenge, well-roundedness, interdisciplinary understanding, and ethics that will contribute to leading the next generation of advanced science and technology are fostered. Learning outcomes are evaluated by two or more supervising professors.

For effective implementation of the above educational policy, compulsory subjects, optional subjects, and core subjects for each program are offered with the appropriate combination with lectures, exercises, PBL, experiments, and practical subjects focused on active learning.

#### <Doctoral course>

1. Subjects teaching state-of-the-art expertise in information science, biological science, materials science, and their interdisciplinary fields.
2. Subjects to foster the ability to actively envision relationships with society, including broad perspectives based on interdisciplinary knowledge, comprehensive understanding, and career planning.
3. Subjects to develop the ability to actively and independently plan and execute research projects, to solve problems, and pursue the boundaries of science and technology.
4. Subjects focused on the acquisition of the presentation and communication skills necessary for successful international activity.

The learning outcomes of each of these subjects shall be evaluated based on the results of written tests, reports, exercises, experiments, practical work, etc.

5. Importance is placed on active engagement in sophisticated research tasks that contribute to advanced science and technology academically or in application to write a doctoral thesis through seminars and research guidance. Through this, the acquisition of the ability to actively and independently identify and resolve problems in a specific field are achieved and the spirit of challenge, well-roundedness, interdisciplinary understanding, and ethicality that will globally contribute to leading next generation advanced science and technology are fostered. Learning outcomes are evaluated by three or more supervising professors.

For effective implementation of the above educational policy, lectures, exercises, hands-on training, experiments, and practical subjects focusing on active learning are offered appropriately. Each program offers subjects to teach cutting-edge knowledge in the corresponding fields.

## **1 – 5. Code of Conduct for Research Activities at NAIST**

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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 institute (hereafter “researchers”) during the performance of research.

#### **1. Responsibilities of Researchers**

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

#### **2. Actions of Researchers**

Researchers shall act with integrity on the basis of earnest beliefs, constantly reviewing their positions toward and approaches to research in the awareness that the autonomy of science is built on the trust and mandates 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 specialized 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 roles 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 achieve and maintain 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 its 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 Environments**

Researchers shall be aware that the establishment and maintenance of a fair and open research environment that enables the execution of responsible research and the prevention of dishonest behavior is also an important obligation, and shall be actively engaged in improving the quality of research environments 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, institute regulations and other rules, in addition to conditions, rules for use, and other stipulations established 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 execution 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, institute regulations, guidelines and other stipulations issued by academic societies and other bodies concerned, and shall have the greatest possible respect for bioethics in research involving 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 funding. They shall also endeavor to protect



individuals' privacy through the appropriate handling of personal information obtained during the research process.

### **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 character of the individual. They shall not use their status or authority to impede or 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.

## **1 – 6 . Financial Support Policies for Nara Institute of Science and Technology Students**

Financial Support Policies for Nara Institute of Science and Technology Students

Nov. 21, 2018

Board of Directors Approved

Nara Institute of Science and Technology (Hereinafter referred to as “NAIST”) is a national graduate school institution without undergraduate programs that promotes cutting-edge research and educates students through advanced curriculum in order to contribute to developments in science and technology, and the advancement of society.

To achieve the above goals, NAIST actively admits highly motivated students both domestically and abroad that will rise to the challenge of advanced science and technology research and will pursue leading roles in society. For this, assisting prospective students in understanding the appeal and benefits of studying at NAIST is a very important issue. NAIST has established the policy of offering financial support as permitted to motivated students in order to further promote an environment conducive of academic pursuits and research without worrying about financial burdens, as part of the appeal of NAIST as an educational choice.

The following programs, etc. are to be implemented as financial support based on the above policy.

#### **1. NAIST Excellent Student Scholarship Program (for doctoral course students)**

Those 1<sup>st</sup> year doctoral students whose academic performance in the master's course is recognized

as outstanding and as having distinguished character may have the year's tuition exempted in full. However, this program is not applicable to MEXT Scholarship recipients or NAIST International Scholar Program participants. Up to 15 students are eligible for this program every year

## 2. Financial support for students from the workforce (for doctoral course students)

Those doctoral students whose academic performance is recognized as outstanding and as having distinguished character may have their tuition exempted in full, and also receive a scholarship. Those employed part-time or by contract (those not employed in a fulltime permanent position) and those whose tuition is being paid for by the company for which they are or were employed are not eligible for this support.

## 3. NAIST International Scholar Program (for doctoral course international students)

The following support is given to those students who passed the Screening of International Students by Special Recommendation and are privately financed international students. (International students other than those sponsored by or receiving scholarships from the Japanese or any other government)

- (1) Payment of transportation costs from their country to Japan
- (2) Employment as a Research Assistant
- (3) Entrance fee exemption
- (4) Tuition fee redemption
- (5) Other support as deemed necessary by the NAIST President

- The number of students to be supported is decided each year considering budget allocation.
- The period of support for this program is the 3 years residing in the doctoral course. However, no support is offered during leaves of absence.

## 4. Ministry of Education and Training Vietnam International Education Development Scholarship (VIED Scholar) Program (for Vietnamese students)

The following support is provided for those privately-financed international students that enter NAIST upon passing the screening held by Vietnam International Education Development of Ministry of Education and Training, Vietnam.

- (1) NAIST examination fee exemption
- (2) Entrance fee exemption
- (3) Tuition fee exemption

- Up to 3 additional students may be eligible for this support each year.
- The period of support is limited to 2 years for the master's course and 3 years for the doctoral course.

## 5. Chinese Government Scholarship Program at NAIST (for Chinese (PRC) doctoral students)

The following support is provided for those privately-financed international students that enter the NAIST doctoral course as Chinese Government Scholarship Program Doctoral Research Students under the China Scholarship Council

- (1) NAIST examination fee exemption
- (2) Entrance fee exemption
- (3) Tuition fee exemption

- Up to 3 additional students may be eligible for this support each year.
- The period of support is limited to the standard period of study for the doctoral course.

## 6. Tuition Exemption Program for students facing financial difficulties (For master's and doctoral

students)

The exemption screening is held for each exemption group of the master's and doctoral courses, and all those deemed eligible by financial and academic standards have half their tuition exempted, within bounds of the total amount determined for each of the programs.

In cases when there is still funding available after all the eligible master's students have received exemption of half of their tuition, doctoral students found to be in great financial need may receive full exemption of their tuition in order of that need.

7. Priority TA/RA Assistantship Program (for 5-Year Integrated Course and doctoral course students)

Financial support equivalent to half of tuition fees is provided from the second year of the master's course through TA/RA assistantship support, and additional support may be made available according to the characteristics of student research areas.

8. Prioritized dormitory housing (for 5-Year Integrated Course and doctoral course students)

Students who plan to continue their studies in the doctoral program at NAIST (only when this is expressed at the time of master's course enrollment) and doctoral students are given priority to reside in the dormitories if they desire to do so.

9. Priority recommendation for Jasso student loans (Type I & II student loans) [for 5-Year Integrated Course students]

Prioritized recommendation is given to 5-Year Integrated Course students who wish to receive JASSO student loans and fulfill the necessary requirements for them.



## 2 Concept of the Graduate School of Science and Technology

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## 2 Concept of the Graduate School of Science and Technology

### 2 – 1. Concept of the Graduate School of Science and Technology

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#### <Objectives>

NAIST will create innovation by undertaking revolutionary research that moves ahead of current trends, especially by creating interdisciplinary research areas by removing the boundaries of traditional research fields. At the same time, NAIST aims to train leading researchers with an aspirational spirit and creativity and engineers with highly advanced expertise through a systematic curriculum, which we have cultivated since our foundation, that covers wide-ranging fields from the most advanced information sciences, biological sciences, and material sciences to interdisciplinary fields that include all of the above.

#### <New Graduate School Features>

- ▶ Removal of barriers between fields for a dynamic educational structure where diverse faculty will perform education together at the forefronts of science and technology
- ▶ An educational format facilitating diverse coursework to respond thoroughly to students' needs and interests
- ▶ Seven 'Education Programs' established to disseminate highly specialized knowledge and training
- ▶ An educational system for basic and advanced knowledge to prepare students for diverse pursuits, and to allow them to reach beyond their expertise
- ▶ Practical training at private businesses or workshops taught by researchers and engineers from private businesses will be offered to implement project-based learning seminars which include real-world applications based on societal needs.

#### <Objectives for each individual student>

Master's Courses cultivate sophisticated expertise in information sciences, biological sciences, or material sciences in order to support society and the economy, wide-ranging qualities to engage in interdisciplinary fields that cover them, a comprehensive perspective to see the entirety of society, and a willingness to be at the forefront of science and technology in society and create innovation.

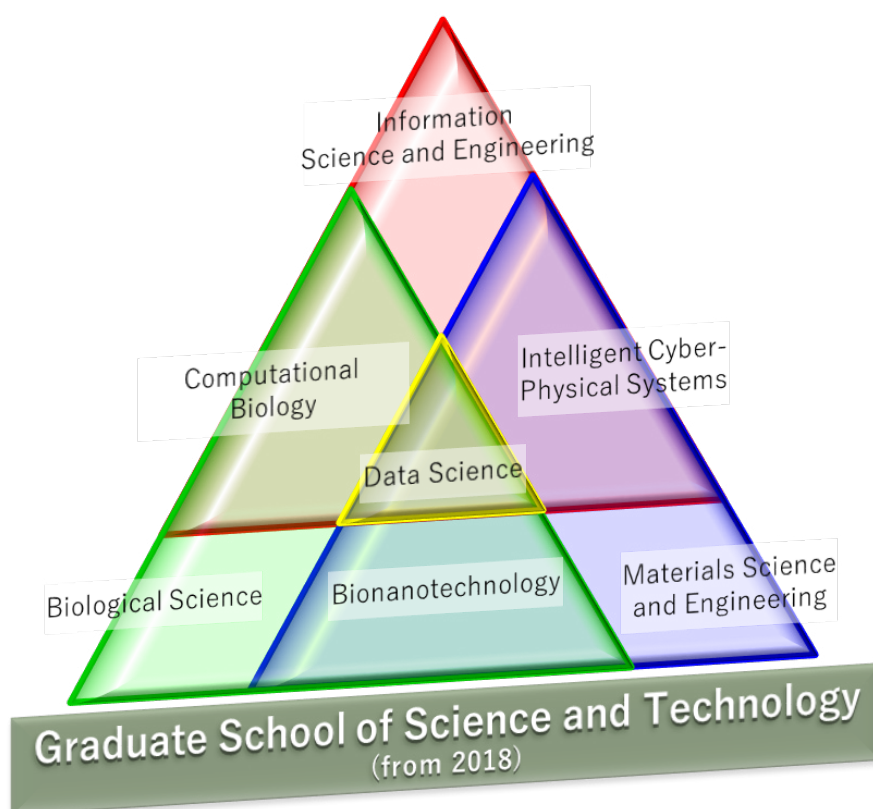
In addition to developing highly advanced knowledge and broad perspectives in information sciences, biological sciences, or material sciences and related interdisciplinary fields, the Doctoral Courses are designed to nurture in researchers and advanced specialized engineers the aspiration to take on challenges in science and technology research with an international mindset, initiative, and independence, and to play a leading role in international society covering industry, government, and academia.

#### <Diverse career options>

Students will obtain a wide range of knowledge, both within their specialized fields and through interdisciplinary development and critical thinking, that will open a wide array of career opportunities.

## 2-2. Seven education programs

The Graduate School of Science and Technology offers seven Education Programs to choose from. Programs based on information sciences, biological sciences, and material sciences, which have been cultivated since the school's foundation, include Information Science and Engineering, Biological Science, and Materials Science and Engineering. Interdisciplinary programs that combine these disciplines include Computational Biology, Intelligent Cyber-Physical Systems, Bionanotechnology, and Data Science. The curriculum framework allows students to take courses to obtain advanced specialties while pursuing their career paths.





### ○Seven education programs facilitating research in leading-edge science and technology

Information Science and Engineering	Degrees granted	Master's / Doctorate (engineering, science)
A focused program fostering students to support our dynamic advanced information society, implementing further achievements in diverse fields. This program cultivates specialized knowledge and skills in computer hardware/information network technology, computer/human interaction and media technology, and computer systems to utilize robotics.		
Computational Biology	Degrees granted	Master's / Doctorate (engineering, science, biological sciences)
An interdisciplinary program fostering students able to collect and analyze the huge amounts of data related to the phenomena of life, such as medical imaging data and the enormous amounts of bio-information concerning genes, proteins, and metabolism, while producing researchers who will undertake the development of these technologies.		
Biological Science	Degrees granted	Master's / Doctorate (biological sciences)
A focused program fostering students to lead societal development and environmental protection in areas such as energy, food supply, resources, and life/health quality. This program enhances knowledge and expertise from the basic principles of the phenomena of life to biodiversity at the molecular, cellular and individual levels of plants, animals and microorganisms.		
Bionanotechnology	Degrees granted	Master's / Doctorate (engineering, science, biological sciences)
An interdisciplinary program fostering students to pursue new trends in bioscience based on materials science, and lead novel functional material creation, including development of pharmaceuticals, medical engineering materials, new polymers imitating biological functions, plant-based active components, and artificial protein materials, investigations of novel chemical compounds to augment plant functions, and exploration of cellular engineering to support regenerative medicine.		
Materials Science and Engineering	Degrees granted	Master's / Doctorate (engineering, science)
A focused program fostering students with foundational knowledge of materials science and advanced knowledge to fully utilize their expertise in a program spanning solid state physics, device engineering, molecular chemistry, polymeric materials and bionano-engineering, and undertake next generation science and technology to maintain affluent living and support societal development.		
Intelligent Cyber-Physical Systems	Degrees granted	Master's / Doctorate (engineering, science)
An interdisciplinary program fostering students able to holistically grasp areas including functional material design, novel and real-world sensing devices, analytical device design, system structuring to fully utilize analysis results, and machine and robot control systems, and who have specialized knowledge and experience to support social systems of this IoT era.		
Data Science	Degrees granted	Master's / Doctorate (engineering, science, biological sciences)
An interdisciplinary program fostering students with a wide range of expertise in data- and AI-driven sciences in information, biological, and materials sciences, to find hidden 'value' and 'truth' through data processing, visualization, and analysis of huge amounts of data to contribute to science, technology, and societal development.		

※Degree type will be decided based on subjects taken and thesis contents.

**OList of educational programs that can be selected for each laboratory**

<Information Science>

Laboratory	PI (Principal Investigator)	Program of Information Science and Engineering	Program of Computational Biology	Program of Intelligent Cyber-Physical Systems	Program of Data Science
Computing Architecture	NAKASHIMA Yasuhiko	○	○	○	○
Dependable System	INOUE Michiko	○		○	○
Ubiquitous Computing Systems	YASUMOTO Keiichi	○	○	○	
Software Engineering	MATSUMOTO Kenichi	○	○	○	○
Software Design and Analysis	IIDA Hajimu	○		○	
Cyber Resilience	KADOBAYASHI Youki	○		○	○
Information Security Engineering	HAYASHI Yuichi	○	○	○	
Internet Architecture and Systems	FUJIKAWA Kazutoshi	○		○	○
Natural Language Processing	WATANABE Taro	○			○
Augmented Human Communication	NAKAMURA Satoshi	○			○
Social Computing	ARAMAKI Eiji		○		○
Network Systems	OKADA Minoru	○	○	○	
Interactive Media Design	KATO Hirokazu	○	○	○	○
Optical Media Interface	MUKAIGAWA Yasuhiro	○	○	○	
Cybernetics and Reality Engineering	KIYOKAWA Kiyoshi	○	○	○	○
Human Robotics	WADA Takahiro	○	○	○	
Intelligent System Control	SUGIMOTO Kenji	○	○	○	○
Large-Scale Systems Management	KASAHARA Shoji	○		○	
Mathematical Informatics	IKEDA Kazushi	○	○	○	○
Imaging-based Computational Biomedicine	SATO Yoshinobu	○	○		○
Computational Systems Biology	KANAYA Shigehiko	○	○	○	○
Robot Learning	MATSUBARA Takamitsu	○		○	○

<Biological Sciences>

Laboratory	PI (Principal Investigator)	Program of Biological Science	Program of Computational Biology	Program of Bionanotechnology	Program of Data Science
Plant Cell Function	HASHIMOTO Takashi	○	○	○	○
Plant Developmental Signaling	NAKAJIMA Keiji	○	○	○	○
Plant Metabolic Regulation	DEMURA Taku	○	○	○	○
Plant Growth Regulation	UMEDA Masaaki	○	○	○	○
Plant Stem Cell Regulation and Floral Patterning	ITO Toshiro	○		○	○
Plant Physiology	ENDO Motomu	○	○	○	
Plant Immunity	SAIJO Yusuke	○	○		○
Plant Symbiosis	YOSHIDA Satoko	○	○	○	○
Plant Secondary Metabolism	TOHGE Takayuki	○	○		○
Bioengineering	KATO Ko	○	○	○	○
Molecular Signal Transduction	ITOH Hiroshi	○	○	○	○
Functional Genomics and Medicine	ISHIDA Yasumasa	○	○	○	○
Tumor Cell Biology	KATO Jun-ya	○	○	○	○
Molecular Immunobiology	KAWAI Taro	○	○	○	○
Molecular Medicine and Cell Biology	SUETSUGU Shiro	○	○	○	○
RNA Molecular Medicine	OKAMURA Katsutomo	○	○	○	○
Stem Cell Technologies	KURISAKI Akira	○	○	○	○
Developmental Biomedical Science	SASAI Noriaki	○	○	○	○
Organ Developmental Engineering	ISOTANI Ayako	○	○	○	○
Applied Stress Microbiology	TAKAGI Hiroshi	○	○	○	○
Environmental Microbiology	YOSHIDA Shosuke	○		○	
Structural Life Science	TSUKAZAKI Tomoya	○	○	○	○
Gene Regulation Research	BESSHO Yasumasa	○	○	○	○
Systems Neurobiology and Medicine	INAGAKI Naoyuki	○	○	○	○
Data-driven Biology	SAKUMURA Yuichi	○	○		○

<Materials Science>

Laboratory	PI (Principal Investigator)	Program of Materials Science and Engineering	Program of Intelligent Cyber-Physical Systems	Program of Bionanotechnology	Program of Data Science
Quantum Materials Science	YANAGI Hisao	○	○		
Bio-Process Engineering	HOSOKAWA Yoichiroh	○		○	○
Solid-state Information Physics	MATSUSHITA Tomohiro	○			○
Photonic Device Science	OHTA Jun	○	○	○	○
Information Device Science	URAOKA Yukiharu	○	○	○	○
Applied Quantum Physics	YANAGIDA Takayuki	○			
Organic Electronics	NAKAMURA Masakazu	○	○		
Mesoscopic Materials Science	NAITO Yasuyuki, ADACHI Hideaki	○	○		○
Sensory Materials and Devices	KITAMURA Keishi, KANAI Masaki	○	○	○	
Photonic and Reactive Molecular Science	KAWAI Tsuyoshi	○	○	○	○
Functional Organic Chemistry	YAMADA Hiroko	○		○	○
Biomimetic and Technomimetic Molecular Science	RAPENNE Gwenael	○		○	
Functional Polymer Science	HONDA Takahiro, OKABE Komei	○		○	
Ecomaterial Science	YOGO Katsunori, GOTO Kazuya	○	○		
Advanced Functional Materials	TAKAHASHI Masanari	○	○	○	
Functional Supramolecular Chemistry	HIROTA Shun	○		○	
Complex Molecular Systems	KAMIKUBO Hironari	○		○	
Nanomaterials and Polymer Chemistry	AJIRO Hiroharu	○		○	
Materials Informatics	FUJII Mikiya	○	○		○
Data Driven Chemistry	FUNATSU Kimito	○			○

※The above information is as of February 2021 (including undecided April 2021). For educational programs that can be selected in the newly established laboratory, please check the latest information from the NAIST website etc.

## 2 – 3. Curriculum for master's courses

Master's courses offer the following categories of subjects:

### ◇ General Subjects

This category includes courses on ethics, philosophy, communication, intellectual property rights, venture entrepreneurship, and languages in order to cultivate a wide range of qualities and social and international skills that are essential for the next generation of science and technology leaders. English classes will be organized into different levels and help students gain the communication skills necessary to be successful in international society through lectures on communication, presentation, discussion, and writing.

### ◇ Science and Technology Subjects

Subjects are offered in four subcategories to help students from different academic backgrounds to understand and discuss the latest science and technology and social needs in various fields. These subjects are designed to cultivate individuals with broad perspectives, flexible inspiration, and creativity to have a comprehensive view of other science and technology fields.

#### ① Introduction Subjects

Students develop a cohesive view by learning about each research field under the seven Education Programs from a comprehensive perspective, including how the most world-wide scientific advancements have developed and merged with each other and what types of new science and technology and research fields will be created in the future.

#### ② Basic Subjects

These Basic Subjects cater to students from a wide range of fields, allow them to tackle different fields or interdisciplinary fields in addition to their specialized fields, and help them to obtain the foundational knowledge required to take individual Education Programs. Basic Subjects are designed to supplement each student's ability from any education program according to their academic history.

#### ③ Specialized Subjects

This is a core lecture in the program in which students gain advanced specialized knowledge along with the human resource development goal of each program. These selective subjects present challenges for the Project Based Learning subjects for each student and provide opportunities within their career paths at the end of the program. Students will engage in exercises to work on the themes presented by students from other labs and to perform research in advanced fields with advanced technologies and methodology. They will also engage in Project Practice to learn the spirit of “mono-tsukuri” manufacturing through participating in internships offered by companies with specific themes.

#### ④ PBL Subjects

As the culmination of “Science and Technology Subjects,” students explore issues in science and technology in collaboration with students from other fields or labs and develop the ability to resolve them in a PBL (Project Based Learning) format. PBL subjects are required subjects and they will not only provide students with broader perspectives in their fields of specialization but also nurture their interdisciplinary communication capability and the aspirational spirit that will be critical when researchers and engineers from different specializations pioneer interdisciplinary fields together.

Among the “Basic Subjects” and “Specialized Subjects,” Core Subjects are designated either

as required or a selection is required for each of the Education Programs as they are necessary to obtain specialized knowledge that are key to each course. (See “4-4 Completion Requirements” in “Chapter 4. Registration Procedure” in this document for details on the Core Subjects.

#### ◇Research-based Subjects

The following subjects are offered as they are directly related to students' master's theses in order to develop their ability to apply their specialized knowledge to address specific issues in science and technology based on the wide-ranging foundational concepts they have learned.

- Seminar I, II

During the seminar, students collaborate to examine their research work through presentations and discussions on the achievements in their master's theses research or survey for their academic paper. The seminar also builds students' aptitude for presentations and discussions.

- Thesis Research

As the culmination of the Master's Course, this subject develops aptitude for extracting new, effective, and practical conclusions from the data obtained from research experiments, developing new challenges based on the conclusions extracted, and logically stating research backgrounds, processes, and conclusions for scientific papers and reports.

- Specialized Project Research

This subject develops students' abilities to discuss the results of experimental data and theoretical calculations based on published literature, formulate new hypotheses based on accumulated information and experience, and draw logical conclusions from the literature. Students create a valid and novel manuscript that furthers their specialized field of study, which is based on previously published research or their own research results.

- Project Report

This subject develops students' abilities to discuss the results of experimental data and theoretical calculations based on published literature, comprehensively understand their chosen field of study, and draw logical conclusions from the literature. Students create a valid manuscript that furthers their specialized field of study based on previously published research.

#### ◇Research guidance and Research Guidance Plans

- Research guidance is conducted by the main supervisor who is primarily responsible for guidance along with at least one sub-supervisor (or two or more for students who enroll in the five-year integrated course) selected from related research fields.
- Research guidance is conducted according to Research Guidance Plans which are prepared for each student every year. The Research Guidance Plan is made according to the agreement by the Graduate School of Science and Technology Faculty Council.

#### ◇Other Education

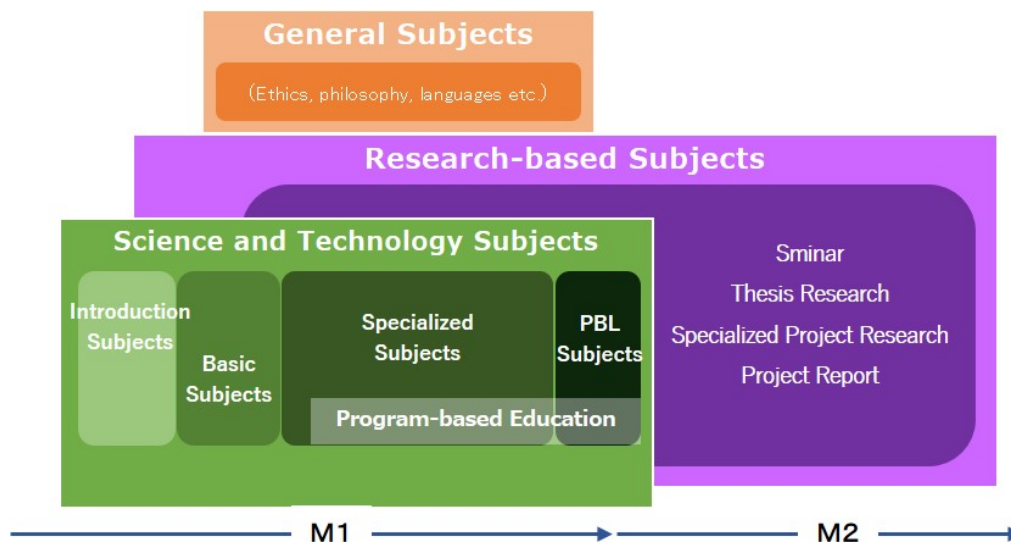
##### ① Education related to performing research

In order to pursue research work safely and legally, lectures and lab work are offered right after students are admitted or allocated to labs. The courses include a Research Ethics Training Session, a Genetic Modification Experiment Workshop, an RI/X-Ray Safety Workshop and Practical Training, an Animal Experiment Workshop, Information Network Guidance, Information Security Workshop/Training, and a Chemical Handling Workshop and Practical Training. A Mental/Physical Health Workshop is also available for learning mental and physical health management.

## ② Career Education

Career Education reinforces students' abilities for developing and actualizing their career vision in response to social needs. It is provided in cooperation with private businesses and public research institutions to prepare students for their future achievements in various fields in society. This includes a training workshop for discussing Master's degree holders' careers in society, a job seminar for discussing job matching, and lectures for learning from the experiences of company leaders, innovative engineers, graduates of NAIST, or venture entrepreneurs for better career paths.

[Outline of curriculum for master's courses]



## 2 – 4. Curriculum for doctoral courses

Doctoral courses offer the following groups of subjects:

### ◇Courses for Research Skills

The following subjects are offered to develop students' international mindsets and international communication skills

- Advanced English A-E  
Advanced international communication is taught in NAIST lectures to teach how to write science and technology papers in English and the methodology of advanced international communication with researchers overseas.
- Overseas English Training I-III  
Students learn English overseas.
- International Training I-III  
Presentations and discussions on research results are held at international conferences or overseas labs.
- Study Abroad I-III  
Students go abroad to participate in research internships at companies overseas or engage in research at universities overseas.

The following subjects are offered to develop students' aspirational spirit and ability for planning projects, discovering issues, combining knowledge and research methodologies, and driving research forward:

- Seminar for International Workshop Planning

Students experience all aspects of international workshops, including proposals, organization, operation, and management.

- Project Management I-III

Students learn on and off campus how to present research topics and research fund management, how to operate and promote research projects, and how to solve problems by combining various knowledge and techniques.

Special Lectures are offered to gain advanced specialized knowledge on the following subjects:

- Information Science and Engineering, Computational Biology, Biological Science, Bionanotechnology, Materials Science and Engineering, Intelligent Cyber-Physical Systems, and Data Science

Students learn in intensive lectures about the latest high-quality research in the fields that correspond to the seven Education Programs in the Master's Courses.

The following subjects are offered to develop students' aspirational spirit and capability for managing research, improving social coordination and comprehensive perspective, and building career paths.

- Innovation Management A, B

Students obtain knowledge on intellectual property necessary for developing innovation internationally, science and technology ethics, and cross-cultural understanding.

- Career Management A, B

Students receive instructions on teaching methods, developing their educational ability, fostering transferrable skills, and obtaining knowledge for starting businesses in order to develop the capability that is necessary for diverse career paths including academia and non-academia.

All students are encouraged to take "Study Abroad" so they can cultivate an international mindset and international communication skills. By providing opportunities for education and research on and off campus and outside Japan, students will be trained in various research environments.

#### ◇Courses for Independent Research Abilities

- Research Status Hearing

Students report on and discuss the progress of their research on specific assignments. This seminar is held for each of the seven Education Programs to give students instructions from broader perspectives and develop their capability for discussion and presentation.

- Doctoral Research I-VI

Students develop their capability for performing research activities independently, setting topics, and being creative through their research work as these skills are necessary for doctoral dissertations.

#### ◇Research guidance and Research Guidance Plans

- Research guidance is conducted by the main supervisor who is primarily responsible for guidance along with two or more sub-supervisors selected from related research fields.
- Research guidance is conducted according to Research Guidance Plans which are prepared for each student every year. The Research Guidance Plan is made according to the agreement by the Graduate School of Science and Technology Faculty Council.

◇Other Education

Education related to performing research is provided as in the Master's Courses.

[Outline of curriculum for doctoral courses]



Curriculum for doctoral courses





### 3 Introduction for incoming students

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## 3 Introduction for incoming students

**3 – 1. Selecting labs and education programs [master's courses]**

2021	Activities	
	All Incoming Students	If Applicable
April 1 (Thu)	Orientation for incoming students	
April 2 (Fri)	TOEIC-IP test	
April 1 (Thu) to April 19 (Mon)	Registration (for subjects starting April 8–19) (Introductory Subjects, Basic Subjects)	
April 5 (Mon)		Basic Academic Achievement Test Required for students who took the entrance examination in biological sciences
April 5 (Mon) to April 7 (Wed)	Lab introductions Labs from each field are introduced over the three days	
April 2 (Fri) to April 22 (Thu)	Lab visits Students can participate in lab briefings, attend office hours, or make appointments for visits by email	
April 13 (Tue) to May 14 (Fri)	Registration (for subjects starting after April 20) (Introductory Subjects, Basic Subjects, Specialized Subjects)	
April 15 (Thu)	1 <sup>st</sup> Laboratory Assignment Request Survey	Change of Field (*) Screening Application For interested students only Requires Proof of Pre-interview from the requested laboratory
April 16 (Fri)	Results of 1 <sup>st</sup> Laboratory Assignment Request Survey Posted online	Notification for Change of Field Screening Application dates (notification by email)
April 19 (Mon)		5-year Integrated Course (*) Application For interested students only
April 20 (Tue)	2 <sup>nd</sup> Laboratory Assignment Request Survey	
April 21 (Wed)	Results of the 2 <sup>nd</sup> Laboratory Assignment Request Survey Posted online	
April 23(Fri)		Results of 5-year Integrated Course Application (notification by email)
April 26(Mon)	Final Laboratory Assignment Request Survey	
April 28(Wed)	Notification of Laboratory Assignments (ranked order) Notification by email Posted online	
May 14(Fri)	Educational program selection	

\* The above schedule is subject to change. Detailed information will be given during the orientation for incoming students.

\* Please visit the website for details regarding laboratory assignments.

[https://ad-info.naist.jp/gakusei/LabAssign/main\\_10.html](https://ad-info.naist.jp/gakusei/LabAssign/main_10.html)

[Other workshops, etc.]

\*April 9 (Fri) - 4<sup>th</sup> and 5<sup>th</sup> periods: First RI/X-Ray Workshop (for all those who may engage in experiments using RI/X-ray)

\*April 20 (Tue) - 3<sup>rd</sup> period: English Language Subject Guidance (for all those who may take English language subjects)

\*e-learning: Information Network Guidance, Safety Education (for all incoming students)

\*e-learning: Genetic Modification Experiment Workshop (for all those who may engage in genetic modification experiments)

\*e-learning: Research Ethics Training Session (for all incoming students)

\*Other procedures for applying for scholarship programs or tuition fee exemption will be explained at the orientation sessions for incoming students so please make sure to attend them.

### **3 – 2 . Selecting labs and education programs [doctoral courses]**

2021

April 2 (Fri): TOEIC-IP Test

All incoming students should take this test.

April 5 (Mon): Orientation for Incoming Students

May 14 (Fri): Education Program selection

\*The above schedule may change depending on overall progress and departmental coordination.

[Other workshops, etc.]

\*April 9 (Fri) - 4<sup>th</sup> and 5<sup>th</sup> periods: First RI/X-Ray Workshop (for all those who may engage in experiments using RI/X-ray)

\*e-learning: Information Network Guidance, Safety Education (for all incoming students)

\*e-learning: Genetic Modification Experiment Workshop (for all those who may engage in genetic modification experiments)

\*e-learning: Research Ethics Training Session (for all incoming students)

\*Other procedures for applying for scholarship programs or tuition fee exemption will be explained at the orientation sessions for incoming students so please make sure to attend them.

## 4 Registration Procedures

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## 4 Registration Procedures

Students should thoroughly consult with their supervisor(s) about subject registration to develop plans for taking for subjects each quarter.

Subject registration is only required for the master's course. In principle, subject registration is necessary for those subjects belonging to the areas outside of their research activity subjects. master's course must include subjects outside the group of subjects related to the student's main research activities. However, intensive lectures, collaborative education programs with other graduate schools, etc., and subjects for certificate programs are not subject to this restriction.

### 4 – 1. Subject Registration

Subject registration can only be performed during the designated periods below using the online subject registration system. During this period, it is also possible to perform registration changes and cancellations in addition to registration for new subjects.

[2021 Subject Registration Periods]

Quarters (Academic Terms)	Period	Subjects
1 <sup>st</sup> Quarter (April 8 to June 30)	April 1 (Thurs) to 19 (Mon)	Introduction Subjects (Spring), Basic Subjects (subjects offered from April 8 to April 19)
	April 13 (Tues) to May 14 (Fri)	General Subjects, Basic Subjects, Specialized Subjects (subjects offered after April 20)
2 <sup>nd</sup> Quarter (July 1 to September 30)	June 24 (Thurs) to July 14 (Wed)	General Subjects, Specialized Subjects, PBL Subjects
3 <sup>rd</sup> Quarter (October 4 to December 24)	September 24 (Fri) to October 20 (Wed)	General Subjects, Basic Subjects, Specialized Subjects, Introduction Subjects (Fall) (subjects offered from October 4 to October 20)
	October 14 (Thurs) to November 4 (Thurs)	General Subjects, Specialized Subjects, PBL Subjects (For Fall incoming students) (subjects offered after October 21)
4 <sup>th</sup> Quarter (January 4 to February 22)	December 22 (Wed) to January 18 (Tues)	General Subjects

In addition to the subject registration period, there is a registration withdrawal period established for each subject (class). If you wish to withdraw from a subject, you can do so during this period. However, please note that if it is past the subject registration period, registration and/or registration changes are not possible. .

Subject withdrawal period: Until the end of the day of the second class
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\* For those subjects where three fourths or more of the lectures will be held within the registration period, registration, registration changes and withdrawals will be possible until end of the day where three fourths of the lectures are completed.

In principle, taking two subjects offered at the same time and period simultaneously is not permitted. In addition, registering for a subject at another institution may require separate registration procedures to be completed in advance.

E-mails announcing subject registration periods are sent before each period begins. Please check incoming e-mails carefully to assure you do not overlook important information sent by NAIST and do not suffer any disadvantages.

\* Subject Registration System

Check the subject registration system manual on the NAIST homepage. Familiarize yourself with how to use the system and make sure to register correctly.

[https://ad-info.naist.jp/gakusei/gakumu\\_kankei.html](https://ad-info.naist.jp/gakusei/gakumu_kankei.html)

○ Guidelines concerning Petition for Subject Registration

If the student is required to cancel or add subject registration due to unavoidable reasons such as leaves of absence, absence due to illness, etc., the student shall submit a "Petition for Subject Registration" without delay to the Academic Affairs Section, Educational Affairs Division. Please submit it as soon as deemed necessary and at least within 1 month of receiving the academic results of the subject.

The Educational Affairs Committee shall consider whether the contents and reasons of the Petition are reasonable, and if necessary, confirm the contents of the Petition with the student's main supervisor or instructor in charge of the subject. The Committee's response shall be sent to the Academic Affairs Section, Educational Affairs Division to then be reported in written form to the student and his/her supervisor.

○ About credits earned prior to admission to NAIST

The NAIST Faculty Council can, if deemed educationally beneficial to do so, approve up to 15 credits for those graduate school credits earned outside of NAIST. Students who apply for this procedure are required to apply to the Academic Affairs Section, Educational Affairs Division with the following documents.

- (1) Application form (available at the Educational Affairs Division.)
- (2) Certificate of credits earned, or certificate of academic record, issued by the institution where the credits were earned
- (3) Documents showing in detail the lecture contents of the subjects to be considered for accreditation by NAIST (a copy of the syllabus, etc.)

\* The schedule for these procedures, etc. will be posted on the bulletin boards or by other means. Please check the information carefully. For more information, please contact the Academic Affairs Section, Educational Affairs Division.

○ 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, Nara Women's University
- Graduate School of Science and Technology, Ryukoku University

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 Academic Affairs Section, Educational Affairs Division.

(1) Registration method, etc.

- Students who want to use the credit transfer program are required to submit the prescribed registration application form and a statement of their reasons for applying.
- For the master's course, the maximum number of credits registered shall be fifteen.
- In principle, the scope of registration for subjects shall be lectures only, and shall not cover seminars, practical work, experiments, research, etc.
- 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 an institution outside of NAIST are counted as credits towards the NAIST completion requirements, provided that the NAIST Faculty Council 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 depends on the institution. Students will be notified via the bulletin board, etc. at a later date.

(4) Procedures for submitting a registration application form and a statement of reasons

- Registration application forms and the statement of reason forms are available at the Educational Affairs Section, Educational Affairs Division.
- Students who want to use the credit transfer program are required to select subjects they wish to take by referring to the lecture contents, class schedule, etc. of the institution; obtain approval from their supervising instructor(s) (a seal of approval is required); and submit the registration application form and a statement of reasons to the Academic Affairs Section, Educational Affairs Division.

○ Research guidance offered at institutions outside of NAIST

Students can receive 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. The duration for which such research guidance is available is up to one year in total for the master's course and doctoral course, respectively. Permission may be given to extend the 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 Academic Affairs Section of the Educational Affairs Division at least two months before the month in which such students will start to receive guidance.

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

- 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.) (which are used by students to commute to the NAIST campus) are suspended due to a major disaster, accident, etc. The table below shows the handling of classes when public transport services are restored.

• Handling of classes when a weather warning is issued

Classes will be cancelled when an Emergency Warning and a storm (or snowstorm) warning is announced 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/the warning is cancelled at or before 7:00 a.m.	Classes are held for the whole day
Public transport services are restored/the warning is cancelled at or before 10:00 a.m.	Classes are held in the afternoon
Public transport services remain suspended/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.

What is an Emergency Warning?

The issuance of an Emergency Warning for an area indicates a level of exceptional risk of a magnitude observed only once every few decades. Residents should pay attention to their surroundings and relevant information such as municipal evacuation advisories and orders, and should take all steps necessary to protect life.

If serious difficulty in travelling to NAIST is anticipated due to scheduled transportation cancellation, etc, NAIST may decide to cancel classes.

In case of a class cancellation, a supplementary lecture is generally given to students by the lecturer in charge. However, at the lecturer’s discretion, an appropriate study assignment may be given to replace the lecture.

○Mandatory Exclusion from Class Attendance due to Infectious Diseases

Students suffering from infectious diseases (such as influenza) diagnosed by a medical doctor must observe the mandatory exclusion from class attendance outlined by Article 19 of the School Health and Safety Act. If diagnosed with an infectious disease, mandatory class exclusion is immediately in effect and students are required to inform the head of their laboratory of the necessary information (name, student ID number, e-mail address, registered subjects, etc.). The head of the laboratory will share student and mandatory class exclusion information with lecturers of the student’s subjects.

[For reference : Period of class exclusion (Common disease examples) ]

Disease	Period of suspension ※
Influenza	5 days from the start of symptoms and 2 days after the fever has broke
Whooping cough	Until the whooping cough has stopped or after finishing a 5 day antibacterial agent treatment
Measles	Until 3 days after the fever has broke
Mumps	Until complete recovery and 5 days after swelling of the parotid gland、glandula submandibularis and/or glandula sublingualis has subsided
Rubella	Until the rash has completely disappeared

※These periods are standards established by the School Health and Safety Act. You should consult

doctors on a case-by-case basis.

※Please check the following page for information on what to do if you are diagnosed or being infected with COVID-19.

[https://www.naist.jp/en/about\\_naist/other\\_information/covid19.html](https://www.naist.jp/en/about_naist/other_information/covid19.html)

In case of a mandatory exclusion from class attendance, the lecturer in charge will generally provide a study assignment equivalent to the content of the missed classes.

In addition, if NAIST closes to prevent the spread of a contagious illness, the lecturer in charge will generally provide supplementary lectures. However these may be replaced by an appropriate study assignment at the lecturer's discretion.

#### ○Excused absence

If you cannot attend a class due to one of the following reasons, the lecturer in charge for the class may treat this absence as an excused absence at his/her discretion.

- 1) Attending an event due the death of a family member closer than or of a second-degree relationship.
- 2) Appearing at a court or other public office due to jury duty, as an eyewitness or a reference witness, etc.
- 3) Attending a bone marrow examination necessary for a bone marrow transplant.

For students who wish to have their absence treated as an excused absence, they must consult with the lecturer in charge.

When an excused absence is granted, the lecturer will provide a study assignment.

#### ○Treatment of other absences

If students cannot attend a class due to a reason which does not constitute an excused absence, they shall consult with the lecturer in charge to explain the reason for the absence.

If the lecturer decides to take special considerations for an absence that may affect grading, the lecturer may give the student an appropriate study assignment that is equivalent to the missed lectures.

#### ○Absence limitations for excused absence and special considerations

The number of class absences that may be treated as excused absences or for special considerations shall not be more than one third of the number of classes for the specific subject.

#### ○Lending of laptop computers for class use to students belonging to Division of Biological Science and Materials Science laboratories

In classes offered by faculty of the Division of Information Science, there are subjects (\*) that require the use of a laptop computer within the class. For this reason, we have prepared laptop computers to be lent to students belonging to Division of Biological Science and Materials Science laboratories, who will take these classes and do not have access to or own a laptop computer.

\* Applicable subjects are indicated in the "Notice" column of the syllabus.

Students who wish to borrow a laptop computer must understand the contents of the "Conditions concerning the Lending of Laptop Computers for Class Use to Students Belonging to Division of Biological Science and Materials Science Laboratories" and receive permission from their supervising professor. After this is done, fill in the necessary information on "Pledge for Borrowing

a Laptop Computer for Classes" and submit it to the Office of your Division of your laboratory to borrow a computer.

There is a limited number of computers available, so if you have own that can be used in your laboratory or if you have your own laptop computer, please refrain from borrowing one.

[https://ad-info.naist.jp/gakusei/gakumu\\_kankei/lending\\_laptop/lending\\_laptop.html](https://ad-info.naist.jp/gakusei/gakumu_kankei/lending_laptop/lending_laptop.html)

**4 – 2. Registration Regulations**

**Nara Institute of Science and Technology**  
**Graduate School of Science and Technology Registration Regulations**

March 26, 2018  
 Regulation No. 1

**Article 1 (Purpose)**

These regulations stipulate matters necessary for Graduate School of Science and Technology student subject registration in accordance with Article 34 of the Regulations of Nara Institute of Science and Technology (Regulations No. 1, 2004) (Hereinafter referred to as “NAIST Regulations”).

**Article 2 (supervisor)**

1. Two or more supervisors of different laboratories, etc. 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 supervisors shall be designated as the main supervisor.
3. Supervisors 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 respective students.

**Article 4 (Subject categories)**

1. Subject categories and the number of credits required for completion for the master’s course shall be as shown in Appendix chart 1.
2. Subject categories and the number of credits required for completion for the doctoral course shall be as shown in Appendix chart 2.
3. The subjects, number of credits, and registration methods for the master’s course and doctoral course shall be stipulated separately.

**Article 5 (Registration procedures)**

1. Students must, under guidance offered by the main supervisor, choose the subjects they will take.
2. In principle, taking multiple subjects held at the same time is not permitted.

**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 deemed as a “pass”, and less than 60 points is deemed as a “fail”. For evaluation purposes, academic performance may be represented with the evaluation grade prescribed in accordance with the categories below.

(1) 90 points or more	Excellent
(2) 80 points or more	Very good
(3) 70 points or more	Good
(4) 60 Points or more	Fair
(5) less than 60 points	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. 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.

#### Article 7 (Research guidance approval)

Research guidance shall be approved by the main supervisor and reported to the graduate school Dean.

#### Article 8 (Thesis title)

Students shall be required to report their thesis title by the specified date, with the approval of the main supervisor.

#### Article 9 (Thesis submission)

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

#### Article 10 (Disqualification of credits for students expelled due to unpaid tuition)

Credits accrued during the period of unpaid tuition shall be disqualified when the student is expelled from NAIST, pursuant to Article 53-2 (4) of the NAIST Regulations.

#### Article 11 (Index indicating the academic performance)

An objective index indicating the academic performance related a certain period or cumulative period can be calculated and evaluated, based on the evaluation performed pursuant to Article 6-2.

#### Article 12 (Miscellaneous provisions)

Other matters relating to student registration shall be stipulated separately.

#### Supplementary provisions

##### (Effective date)

1. These Regulations shall come into effect on April 1, 2018.

##### (Abolition)

2. The Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology, The Registration Regulations for the Graduate School of Biological Sciences at the Nara Institute of Science and Technology and The Registration Regulations for the Graduate School of Materials Science at the Nara Institute of Science and Technology (hereinafter referred to as “the former Registration Regulations”) are abolished.

##### (Transitional measures)

3. For registration of students who were admitted in the 2017 academic year or earlier (hereinafter referred to as “enrolled students”), notwithstanding the stipulations of these Regulations, the previous examples shall be followed. 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, 2020.

(Transitional measures)

2. For registration of students who were admitted in the 2019 academic year or earlier, notwithstanding the stipulations of the revised Appendix chart 1, the previous examples shall be followed.

Appendix chart 1 (supplement to Article 4, Paragraph 1)

Subject and Category		Number of credits required for completion	
Subject type	Category	Thesis Research or Specialized Project Research	Project Report
General Subjects	—	4	4
Science and Technology Subjects	Introduction Subjects	2	2
	Basic Subjects	1 2	1 4
	Specialized Subjects		
	PBL Subjects	2	2
Research-based Subjects	—	1 0	8
Total		3 0	3 0

Appendix chart 2 (supplement to Article 4, Paragraph 2)

Subject and Category	Number of credits required for completion
Subjects for research skills	3
Subjects for independent research abilities	7
Total	1 0

## Nara Institute of Science and Technology Graduate School of Science and Technology Registration Policy

March 27, 2018

Policy No. 1

### Article 1 (Purpose)

This Policy stipulates matters necessary for the subjects, number of credits, and registration methods in accordance with the stipulations Article 4, Clause 3 of the Nara Institute of Science and Technology Graduate School of Science and Technology Registration Regulations (Regulations No. 1, 2018) (Hereinafter referred to as “Registration Regulations”).

### Article 2 (Subjects)

1. The subjects, number of credits, and registration methods for the master’s course shall be as shown in Appendix chart 1.
2. The subjects, number of credits, and registration methods for the doctoral course shall be as shown in Appendix chart 2.

### Supplementary provision

This Policy shall come into effect on April 1, 2018.

### Supplementary provision

This Policy shall come into effect on June 14, 2018, and be applicable from April 1, 2018.

### Supplementary provisions

(Effective date)

1. This Policy shall come into effect on April 1, 2019.

(Transitional measures)

2. For students who were admitted in academic year 2018 or earlier (hereinafter referred to as “enrolled students”), notwithstanding the stipulations of the revised Appendix chart 1 and Appendix chart 2, the previous examples shall be followed. In the event that enrolled students take subjects within the scope of this Policy, such subjects shall be deemed to be replaced with former subjects as set forth separately.

### Supplementary provisions

(Effective date)

1. This Policy shall come into effect on April 1, 2020.

(Transitional measures)

2. For students who were admitted in academic year 2019 or earlier (hereinafter referred to as “enrolled students”), notwithstanding stipulations of the revised Appendix chart 1, the previous examples shall be followed. In the event that enrolled students take subjects within the scope of this Policy, such subjects shall be deemed to be replaced with former subjects as set forth separately.

(Effective date)

1. This Policy shall come into effect on April 1, 2021.

(Transitional measures)

2. For students who were admitted in academic year 2020 or earlier (hereinafter referred to as “enrolled students”), notwithstanding stipulations of the revised Appendix chart 1, the previous examples shall be followed. In the event that enrolled students take subjects within the scope of this Policy, such subjects shall be deemed to be replaced with former subjects as set forth separately.



Appendix chart 1 (supplement to Article 2, Paragraph 1)

Curriculum chart of the Graduate School of Science and Technology (Master's Course)

(1) Subject name, etc.

Subject type	Category	Subject name	Subject Number	Number of credits	Number of credits required for completion	Project Report	Registration Category						Remarks	
							Information Science and Engineering	Computational Biology	Biological Science	Bionanotechnology	Materials Science and Engineering	Intelligent Cyber-Physical Systems		Data Science
General Subjects	-	Techonology and Professional Ethics	1001	1	4	4			◎	◎	◎	◎	two of the six subjects as elective subjects  International students have priority For international students For international students For international students For international students	
		Philosophy of Science	1002	1			○	○	○	○	○	○		○
		Science Communication	1003	1			○	○	○	○	○	○		○
		Intellectual Property Right	1004	1			○	○	○	○	○	○		○
		Exercise for Intellectual Property Rights	1019	1	○	○	○	○	○	○	○			
		Advanced lecture on creation of innovation I	1025	1	○	○	○	○	○	○	○			
		Advanced lecture on creation of innovation II	1026	1	○	○	○	○	○	○	○			
		Advanced lecture on creation of innovation III	1027	1	○	○	○	○	○	○	○			
		Advanced lecture on creation of innovation IV	1028	1	○	○	○	○	○	○	○			
		Advanced lecture on creation of innovation V	1029	1	○	○	○	○	○	○	○			
		Professional Communication I	1010	1	□	□	□	□	□	□	□			
		Professional Communication II	1011	1	□	□	□	□	□	□	□			
		Academic Discussion	1012	1	□	□	□	□	□	□	□			
		Research Presentation	1013	1	□	□	□	□	□	□	□			
		Research Writing	1014	1	□	□	□	□	□	□	□			
		Advanced Research Writing	1015	1	□	□	□	□	□	□	□			
		Japanese Culture	1016	2	○	○	○	○	○	○	○			
		Japanese Course I	1017	2	△	△	△	△	△	△	△			
		Japanese Course II	1018	2	△	△	△	△	△	△	△			
		Japanese Course III	1020	2	△	△	△	△	△	△	△			
Japanese Course IV	1021	2	△	△	△	△	△	△	△					
Japanese Course V	1022	2	△	△	△	△	△	△	△					
Academic Volunteer I	1023	1	○	○	△	△	△	○	○					
Academic Volunteer II	1024	1	○	○	△	△	△	○	○					
BioDX Programming I	1030	1	△	△	△	△	△	△	△					
BioDX Programming II	1031	1	△	◎	○	△	△	△	○					
BioDX Data Processing I	1032	1	△	△	△	△	△	△	△					
BioDX Data Processing II	1033	1	△	◎	○	○	△	△	○					
Science and Technology Subjects	Introduction Subjects	Introduction to Information Science and Engineering	2001	1	2	2	○	○	○	○	○	○		
		Introduction to Biological Science	2003	1			○	○	○	○	○	○		
		Introduction to Materials Science and Engineering	2005	1			○	○	○	○	○	○		
		Introduction to Interdisciplinary Research Programs	2008	1			○	○	○	○	○	◎		
	Basic Subjects	Fundamentals of Information Science I	3031	1	at least 12 credits from the basic and specialized subjects required for each educational program	at least 14 credits from the basic and specialized subjects required for each educational program	○	○	△	△	△	○		○
		Fundamentals of Information Science II	3032	1			○	○	△	△	△	○		○
		Programming Course	3002	1			○	○	○	△	△	○		○
		Molecular Biology	3012	1			△	○	○	○	△	△		○
		Cell Membranes and Transport	3013	1			△	○	□C	○	△	△		○
		Cell Signaling	3014	1			△	○	□C	○	△	△		○
		Microbial Science	3015	1			△	○	□C	○	△	△		○
		Plant Science	3016	1			△	○	□C	○	△	△		○
		Biomedical Science	3017	1			△	○	□C	○	△	△		○
		Cytoskeleton and Cell Cycle	3018	1			△	○	□C	○	△	△		○
		Genetics and Stem Cell Biology	3019	1			△	○	□C	○	△	△		○
		Gene Cloning and DNA Analysis	3020	1			△	○	□C	○	△	△		○
		Introduction to NAIST Bioscience	3033	1			△	○	○	○	△	△		○
		Mathematical Analyses for Materials Science	3021	1			△	△	△	○	○	○		○
		Quantum Mechanics	3022	1			△	△	△	○	○	□C		○
		Core Quantum Mechanics II	3023	1			△	△	△	○	○	□C		○
		Core Physical Chemistry I	3024	1			△	△	△	○	○	○		○
		Physical Chemistry	3025	1			△	△	△	○	○	○		○
		Core Solid State Physics I	3026	1			△	△	△	○	○	□C		○
		Core Solid State Physics II	3027	1			△	△	△	○	○	□C		○
		Core Molecular Science I	3028	1			△	△	△	○	○	□C		○
		Core Molecular Science II	3029	1			△	△	△	□C	□C	□C		○
		Biomaterials Chemistry	3030	1			△	△	△	□C	□C	□C		○
		Semiconductor Materials	3034	1			△	△	△	○	○	□C		○
Optoelectronics	3035	1	△	△	△	○	○	□C	○					
Organic Synthesis and Polymer Science	3036	1	△	△	△	○	○	□C	○					

Subject type	Category	Subject name	Subject Number	Number of credits	Number of credits required for completion	Registration Category							Remarks	
						Thesis Research Project Report	Education Programs							Data Science
							Information Science and Engineering	Computational Biology	Biological Science	Bionanotechnology	Materials Science and Engineering	Intelligent Cyber-Physical Systems		
Science and Technology Subjects	Specialized Subjects	Software Engineering	4006	1			○	○	△	△	△	○	○	
		Cyber Security	4090	1			○	○	△	△	△	○	○	
		Transmission Theory	4091	1				○	○	△	△	△	○	
		High-performance computing platforms	4092	1				○	○	△	△	△	○	
		Advanced Algorithm Design	4093	1				○	○	△	△	△	○	
		Systems Resource Management	4094	1				○	○	△	△	△	○	
		Hardware Security	4038	1				○	○	△	△	△	○	
		Robust/Optimal Control	4095	1				○	○	△	△	△	○	
		Software Systems Development	4096	1				○	○	△	△	△	○	
		Computer Network	4008	1				○	○	△	△	△	○	
		Ubiquitous Systems	4003	1				○	○	△	△	△	□C	
		Sequential Data Modeling	4034	1				○	○	△	△	△	□C	
		Visual Media Processing I	4097	1				○	○	△	△	△	□C	
		Visual Media Processing II	4098	1				○	○	△	△	△	□C	
		Data Mining	4099	1				○	□C	△	△	△	□C	
		Multidimensional signal processing	4100	1				○	○	△	△	△	□C	
		Robotics	4101	1				○	○	△	△	△	□C	
		Natural Language Processing	4102	1				○	○	△	△	△	□C	
		Human Information Processing	4103	1				○	□C	△	△	△	□C	
		Mathematical Models in Biology	4104	1				○	□C	△	△	△	□C	
		Data Science	4105	1				○	○	△	△	△	◎	
		Special Lecture in Information Science A	4029	1				○	○	△	△	△	○	
		Special Lecture in Information Science B	4030	1				○	○	△	△	△	○	
		Special Lecture in Information Science C	4031	1				○	○	△	△	△	○	
		Special Lecture in Information Science D	4032	1				○	○	△	△	△	○	
		System Requirements Engineering	4086	1				○	○	△	△	△	○	
		Systems Development Process	4087	1				○	○	△	△	△	○	
		Lecture of Information Security Management Literacy I	4042	1				○	○	△	△	△	○	
		Lecture of Information Security Management Literacy II	4043	1				○	○	△	△	△	○	
		Exercise for Information Security A	4044	1				○	○	△	△	△	○	
		Exercise for Information Security B	4045	1				○	○	△	△	△	○	
		Exercise for Information Security C	4046	1				○	○	△	△	△	○	
		Advanced Lecture in Developmental Biology	4054	1				△	○	○	○	△	○	
		Advanced Techniques in Bioscience	4055	1				△	○	□C	○	△	□C	
		Plant Developmental Physiology	4056	1				△	○	○	○	△	○	
		Developmental Biology of Animals	4057	1				△	○	○	○	△	○	
		Pharmacology and Pathological Chemistry	4058	1				△	○	○	○	△	○	
		Immunology	4059	1				△	○	○	○	△	○	
		The Biology of Genome and Cancer	4060	1				△	○	○	○	△	○	
		Survival Biology -how to read scientific papers-	4106	1				△	○	○	○	△	○	
		International Forefront in Bioscience A	4062	1				△	○	○	○	△	○	
		International Forefront in Bioscience B	4063	1				△	○	○	○	△	○	
		Big data in Bioscience	4064	1				△	○	○	○	△	□C	
		Logic in Scientific Discovery	4089	1				△	○	○	○	△	○	
		Applied Life Science	4107	1				△	□C	○	□C	△	○	
		Development of Bioscience into Industry	4108	1				△	□C	○	□C	△	○	
		Social Implementation of Science and Technology	4109	1				△	□C	○	□C	△	○	
		Statistics and Mathematics in Bioscience	4110	1				△	□C	○	○	△	□C	
		Advanced Topics in Biological Science A	4111	1				△	○	○	○	△	○	
		Advanced Topics in Biological Science B	4112	1				△	○	○	○	△	○	
		Advanced Bioscience Seminar I	4113	1				△	○	○	○	△	○	
		Advanced Bioscience Seminar II	4114	1				△	○	○	○	△	○	
		Electronic Properties and Atomic Structures of Solids and Surfaces Special	4066	1				△	△	△	○	○	○	
		Light and Information Devices Special	4068	1				△	△	△	○	○	□C	
		Biomolecular Science	4070	1				△	△	△	□C	○	○	
		Molecular Photo-science	4072	1				△	△	△	○	○	○	
		Photonics Special	4067	1				△	△	△	○	○	○	
		Materials Science for Quantum Information and Energy Conversion	4069	1				△	△	△	○	○	○	
		Organometallic Chemistry	4115	1				△	△	△	○	○	○	
		Polymer Chemistry	4073	1				△	△	△	○	○	○	
Materials Informatics	4074	1				△	△	△	○	□C	□C			
Materials Science Special A	4076	1				△	△	△	○	○	○			
Materials Science Special B	4077	1				△	△	△	○	○	○			
Materials Science Special C	4078	1				△	△	△	○	○	○			
Materials Science Special D	4079	1				△	△	△	○	○	○			
Project Practice	4083	1				○	○	○	○	○	○			

Subject type	Category	Subject name	Subject Number	Number of credits	Number of credits required for completion	Registration Category						Remarks		
						Education Programs								
						Information Science and Engineering	Computational Biology	Biological Science	Bionanotechnology	Materials Science and Engineering	Intelligent Cyber-Physical Systems	Data Science		
Science and Technology Subjects	PBL Subjects	Information Science and Engineering PBL I	5001	1		⊙							Only PBL subjects related to the selected Educational Program can be taken	
		Information Science and Engineering PBL II	5002	1		⊙								
		Computational Biology PBL I	5003	1			⊙							
		Computational Biology PBL II	5004	1			⊙							
		Biological Sciences PBL I	5005	1					⊙					
		Biological Sciences PBL II	5006	1					⊙					
		Bionanotechnology PBL I	5007	1	2	2				⊙				
		Bionanotechnology PBL II	5008	1						⊙				
		Materials Science and Engineering PBL I	5009	1						⊙				
		Materials Science and Engineering PBL II	5010	1						⊙				
		Intelligent Cyber-Physical Systems PBL I	5011	1							⊙			
		Intelligent Cyber-Physical Systems PBL II	5012	1							⊙			
		Data Science PBL I	5013	1								⊙		
		Data Science PBL II	5014	1								⊙		
Research-based Subjects		Seminar I	6008	2		⊙	⊙	⊙	⊙	⊙	⊙	⊙		
		Seminar II	6009	2		⊙	⊙	⊙	⊙	⊙	⊙	⊙		
		Thesis Research	6010	6	10	8	□	□	□	□	□	□		□
		Specialized Project Research	6011	6			□	□	□	□	□	□		□
		Project Report	6012	4			□	□	□	□	□	□		□
Number of credits required for completion					30	30								
In the "Required/elective" column, ⊙, □, ○, and △ represent required subjects, required elective subjects, and elective subjects, respectively. Subjects marked △ do not count as credits toward the completion requirements. C mark represent the core subjects for each educational program.														

## (2) Registration requirements

A. (i) When taking "Thesis Research" or "Specialized Project Research", a total of 30 credits or more must be completed, including at least four credits from General Subjects, at least two credits from Introduction Subjects, at least 12 credits among Basic Subjects and Specialized Subjects, at least two credits from PBL Subjects, and at least ten credits from Research-based Subjects.

(ii) When taking "Project Report", the total of 30 credits or more must be completed, including at least four credits from General Subjects, at least two credits from Introduction Subjects, at least 14 credits among Basic Subjects and Specialized Subjects, and at least two credits from PBL Subjects, and at least eight credits from Research-based Subjects.

B. Basic Subjects and Specialized Subjects mentioned in A above must include the completion of Core Subjects defined as course completion requirements for each educational program as outlined below.

- For the **Program of Information Science and Engineering**, core subjects are not set.
- For the **Program of Computational Biology**, at least three subjects among the following Core Subjects must be completed; "Data Mining", "Human Information Processing", "Mathematical Models in Biology", "Applied Life Science", "Development of Bioscience into Industry", "Social Implementation of Science and Technology" and "Statistics and Mathematics in Bioscience".
- For the **Program of Biological Science**, at least eight subjects in (i), (ii) and (iii) must be completed.
  - (i) At least one subject among the following Core Subjects must be completed: "Microbial Science", "Plant Science", and "Biomedical Science".
  - (ii) At least three subjects among the following Core Subjects must be completed: "Cell Membranes and Transport", "Cell Signaling", "Cytoskeleton and Cell Cycle", "Genetics and Stem Cell Biology", "Gene Cloning and DNA Analysis" and "Advanced Techniques in Bioscience".
  - (iii) At least four subjects among Specialized Subjects of elective subjects for the Program of Biological Science, except "Advanced Techniques in Bioscience" and "Project Practice".
- For the **Program of Bionanotechnology**, at least three subjects among the following Core Subjects must be completed; "Core Molecular Science II", "Biomaterials Chemistry", "Applied Life Science", "Development of Bioscience into Industry", "Social Implementation of Science and Technology" and "Biomolecular Science".
- For the **Program of Materials Science and Engineering**, at least four subjects in (i) and (ii) must be completed.
  - (i) Choose a set of Core Subjects of either a combination of 'Core Solid State Physics I' and 'Core Solid State Physics II' or a combination of 'Core Molecular Science I' and 'Core Molecular Science II'.
  - (ii) At least two Core Subjects must be completed among "Biomaterials Chemistry", "Semiconductor Materials", "Optoelectronics" and "Organic Synthesis and Polymer Science".
- For the **Program of Intelligent Cyber-Physical Systems**, at least three Core Subjects in (i) and (ii) must be completed.
  - (i) At least one subject among the following Core Subjects must be completed: "Ubiquitous Systems", "Sequential Data Modeling", "Visual Media Processing I", "Visual Media Processing II", "Data Mining", "Multidimensional signal processing", "Robotics", "Natural Language Processing", "Human Information Processing", and "Mathematical Models in Biology".
  - (ii) At least one subject among the following Core Subjects must be completed: "Quantum Mechanics", "Core Quantum Mechanics II", "Semiconductor Materials", and "Materials Informatics".
- For the **Program of Data Science**, at least two Core Subjects in (i) and (ii) must be completed.
  - (i) At least one subject among the following Core Subjects must be completed: "Big data in Bioscience" and "Materials Informatics".
  - (ii) At least one subject among the following Core Subjects must be completed: "Sequential Data Modeling", "Visual Media Processing I", "Data Mining", "Multidimensional signal processing", "Natural Language Processing", "Mathematical Models in Biology", "Advanced Techniques in Bioscience", "Statistics and Mathematics in Bioscience" and "Light and Information Devices Special".

## (3) Numbering Information

Subject numbers consist of 4-digit numbers based on levels of courses.

First digit : The first digit in the 6-digit numbers indicates levels of subjects:

- 1XXX = General Subjects (For master's course)
- 2XXX = Introduction Subjects (For master's course)
- 3XXX = Basic Subjects (For master's course)
- 4XXX = Specialized Subjects (For master's course)
- 5XXX = PBL Subjects (For master's course)
- 6XXX = Research-based Subjects (For master's course)
- 7XXX = Courses for research skills (For doctoral course)
- 8XXX = Courses for independent research abilities (For doctoral course)

From second to fourth digits : The from second to fourth digits in the 6-digit numbers indicate serial

XXXX = Serial numbers (ranging from 01 to 99)

Appendix chart 2 (supplement to Article 2, Paragraph 2)

**Curriculum chart of the Graduate School of Science and Technology (Doctoral Course)**

(1) Subject name, etc.

Category	Subject name	Subject Number	Number of credits	Number of credits required for completion	Required/elective	Remarks
Subjects for research skills	Advanced English A	7001	1	3	○	English lectures at NAIST If you have already taken the master's course subject "Academic Discussion" you may not take "Advanced English A".
	Advanced English B	7002	1		○	If you have already taken the master's course subject "Research Presentation" you may not take "Advanced English B".
	Advanced English C	7003	1		○	If you have already taken the master's course subject "Research Writing" you may not take "Advanced English C".
	Advanced English D	7004	1		○	If you have already taken the master's course subject "Advanced Research Writing" you may not take "Advanced English D".
	Advanced English E	7029	1		○	
	Overseas English Training I	7005	2		○	English training overseas (About 3 weeks or more)
	Overseas English Training II	7006	2		○	
	Overseas English Training III	7007	2		○	
	International Training I	7008	1		○	Presentations at a international conference
	International Training II	7009	1		○	
	International Training III	7010	1		○	
	Study Abroad I	7011	2		○	Students are strongly recommended to take "Study Abroad I". • Internship at an overseas corporation to perform research (About 3 weeks or more) • Research activities at a overseas partner laboratory or research institution (About 3 weeks or more) • Overseas research
	Study Abroad II	7012	2		○	
	Study Abroad III	7013	2		○	
	Seminar for International Workshop Planning	7014	1		○	Plan an international student workshop, etc.
	Project Management I	7015	1		○	Management of research project, etc
	Project Management II	7016	1		○	
	Project Management III	7017	1		○	
	Special Lectures in Information Science and Engineering	7018	1		○	Special lectures corresponding to seven educational programs in the Master's course
	Special Lectures in Computational Biology	7019	1		○	
	Special Lectures in Biological Science	7020	1		○	
	Special Lectures in Bionanotechnology	7021	1		○	
	Special Lectures in Materials Science and Engineering	7022	1		○	
	Special Lectures in Intelligent Cyber-Physical Systems	7023	1		○	
Special Lectures in Data Science	7024	1	○			
Innovation Management A	7025	1	○	Students are strongly recommended to take "Innovation Management A". If you have already taken the master's course subject "Exercise for Intellectual Property Rights" you may not take "Innovation Management A".		
Innovation Management B	7026	1	○			
Career Management A	7027	1	△			
Career Management B	7028	1	△			
Subjects for independent research abilities	Research Status Hearing	8001	1	7	◎	Research status hearing (A mid-term report)
	Doctoral Research I	8002	3		○	(The first half-year)
	Doctoral Research II	8003	3		○	(The second half-year)
	Doctoral Research III	8004	3		○	(The third half-year)
	Doctoral Research IV	8005	3		○	(The fourth half-year)
	Doctoral Research V	8006	3		○	(The fifth half-year)
	Doctoral Research VI	8007	3		○	(The sixth half-year)
Number of credits required for completion				10		

In the "Required/elective" column, ◎, □, ○, and △ represent required subjects, required elective subjects, and elective subjects, respectively. Subjects marked △ do not count as credits toward the completion requirements.

\* This curriculum is also used for double degree program students.

### (2) Registration requirements

Students are required to earn 10 credits or more in total. The total credits must include at least 3 credits from "Courses for research skills" and at least 7 credits from "Courses for independent research abilities" (including earning 1 credit of "Research Status Hearing").

### (3) Numbering Information

Subject numbers consist of 4-digit numbers based on levels of courses.

First digit : The first digit in the 4-digit numbers indicates levels of subjects:

- 1XXX = General Subjects (For master's course)
- 2XXX = Introduction Subjects (For master's course)
- 3XXX = Basic Subjects (For master's course)
- 4XXX = Specialized Subjects (For master's course)
- 5XXX = PBL Subjects (For master's course)
- 6XXX = Research-based Subjects (For master's course)
- 7XXX = Courses for research skills (For doctoral course)
- 8XXX = Courses for independent research abilities (For doctoral course)

From second to fourth digits : The from second to fourth digits in the 4-digit numbers indicate serial

XXXX = Serial numbers (ranging from 01 to 99)

### 4 – 3. Research Ethics Training Session

NAIST offers Research Ethics Training Sessions through e-learning every year to foster the ethical thinking necessary for researchers and technicians.

Completion period: Beginning from Mid-April, 2021 (For Spring students)

Beginning from Mid-October, 2021 (For Fall students)

Detailed information about the e-learning course will be announced by e-mail when decided.

Participation is mandatory for all new students. Please understand that if you do not successfully complete this session, you may experience some disadvantages during your studies.

### 4 – 4. Completion Requirements

The following conditions must be satisfied to complete the program. You are responsible for confirming whether or not the completion requirements have been satisfied by consulting with your supervisor.

#### <Master's course>

For successful completion of “Thesis Research” or “Specialized Project Research”, you must be registered in the master’s course for at least two years, and complete at least 30 credits (including successfully completing the “Research Ethics Training Session”). These credits must include at least 4 credits from “General Subjects,” at least 2 credits of introductory subjects from “Science and Technology Subjects,” at least 12 credits from the basic and specialized subjects required for each Education Program, at least 2 credits from PBL subjects offered by each Education Program, and at least 10 credits from “Research-based Subjects”. In addition, you must have received the necessary research guidance, your master’s thesis must be accepted, and you must pass the final exam.

For successful completion of “Project Report”, you must be registered in the master’s course for at least two years, and complete at least 30 credits (including successfully completing the “Research Ethics Training Session”). These credits must include at least 4 credits from “General Subjects,” at least 2 credits of introductory subjects from “Science and Technology Subjects,” at least 14 credits from the basic and specialized subjects required for each Education Program, at least 2 credits from PBL subjects offered by each Education Program, and at least 8 credits from “Research-based Subjects”. In addition, you must have received the necessary research guidance, your master’s thesis must be accepted, and you must pass the final exam.

The subjects indicated by (※) are required or elective subjects which are core subjects to gain specialized knowledge required by each educational program.

A student can also study specialized subjects required by educational programs other than the program the student chose.

[The core subjects for each educational program]

#### 【Program of Information Science and Engineering】

For the Program of Information Science and Engineering, core subjects are not set.

**【Program of Computational Biology】**

For the Program of Computational Biology, at least three subjects among the following Core Subjects must be completed; “Data Mining”, “Human Information Processing”, “Mathematical Models in Biology”, “Applied Life Science”, “Development of Bioscience into Industry”, “Social Implementation of Science and Technology” and “Statistics and Mathematics in Bioscience”.

**【Program of Biological Science】**

For the Program of Biological Science, at least eight subjects in (i), (ii) and (iii) must be completed.

- (i) At least one subject among the following Core Subjects must be completed: “Microbial Science”, “Plant Science”, and “Biomedical Science”.
- (ii) At least three subjects among the following Core Subjects must be completed: “Cell Membranes and Transport”, “Cell Signaling”, “Cytoskeleton and Cell Cycle”, “Genetics and Stem Cell Biology”, “Gene Cloning and DNA Analysis” and “Advanced Techniques in Bioscience”.
- (iii) At least four subjects among Specialized Subjects of elective subjects for the Program of Biological Science, except “Advanced Techniques in Bioscience” and “Project Practice”.

**【Program of Bionanotechnology】**

For the Program of Bionanotechnology, at least three subjects among the following Core Subjects must be completed; “Core Molecular Science II”, “Biomaterials Chemistry”, “Applied Life Science”, “Development of Bioscience into Industry”, “Social Implementation of Science and Technology” and “Biomolecular Science”.

**【Program of Materials Science and Engineering】**

For the Program of Materials Science and Engineering, at least four subjects in (i) and (ii) must be completed.

- (i) Choose a set of Core Subjects of either a combination of ‘Core Solid State Physics I’ and ‘Core Solid State Physics II’ or a combination of ‘Core Molecular Science I’ and ‘Core Molecular Science II’.
- (ii) At least two Core Subjects must be completed among “Biomaterials Chemistry”, “Semiconductor Materials”, “Optoelectronics” and “Organic Synthesis and Polymer Science”.

**【Program of Intelligent Cyber-Physical Systems】**

For the Program of Intelligent Cyber-Physical Systems, at least three Core Subjects in (i) and (ii) must be completed.

- (i) At least one subject among the following Core Subjects must be completed: “Ubiquitous Systems”, “Sequential Data Modeling”, “Visual Media Processing I”, “Visual Media Processing II”, “Data Mining”, “Multidimensional signal processing”, “Robotics”, “Natural Language Processing”, “Human Information Processing”, and “Mathematical Models in Biology”.
- (ii) At least one subject among the following Core Subjects must be completed: “Quantum Mechanics”, “Core Quantum Mechanics II”, “Semiconductor Materials”, and “Materials Informatics”.

**【Program of Data Science】**

For the Program of Data Science, at least two Core Subjects in (i), (ii) must be completed.

(i) At least one subject among the following Core Subjects must be completed: “Big data in Bioscience” and “Materials Informatics”.

(ii) At least one subject among the following Core Subjects must be completed:

“Sequential Data Modeling”, “Visual Media Processing I”, “Data Mining”, “Multidimensional signal processing”, “Natural Language Processing”, “Mathematical Models in Biology”, “Advanced Techniques in Bioscience”, “Statistics and Mathematics in Bioscience” and “Light and Information Devices Special”.

<Doctoral course>

You must be registered in the doctoral course for at least three years and complete a total of ten credits (including taking "Research Ethics Training Session" and passing the test). The total credits must include at least three credits from “Subjects for research skills” and at least seven credits from “Subjects for independent research abilities.” In addition, you must receive necessary research guidance, your doctoral dissertation must be accepted, and you must pass the final exam.

**4 – 5. 5-year Integrated Course**

**【Summary】**

Through consistent doctoral research guidance (of the 5-year Integrated Course) during the standard period of study (5 years) of the master’s and doctoral courses, human resource development aimed at fostering profound knowledge in specialized fields, originality and creativity, and an understanding of issues, etc. on a global scale is achieved. Additionally, for the 5-year Integrated Course students NAIST prioritizes the expansion of the research guidance system and financial support to prepare a guidance system that allows individuals to concentrate on research as doctoral students.

**【Participation in the 5-year Integrated Course approval timing and support contents】**

The support contents for the 5-year Integrated Course students varies according to the timing of participation approval as shown in the table below.

Date of approval for participation in 5-year Integrated Course	Support details		
	Laboratory assignment	Sub supervisor increase	Financial support
From admission until laboratory assignment	★	★	★
After laboratory assignment (After May)		★	★

Laboratory assignment: Priority for laboratory choices

Sub supervisor increase: Two or more sub supervisors

Financial support: Financial support (TA/RA salary) from the 2nd year of the master’s course is possible.



**【How to participate in the 5-year Integrated Course and standards for approval】**

Students who wish to participate in the 5-year Integrated Course meet with the faculty of the laboratory from which they wish to enter to obtain approval ※ and then submit the “5-year Integrated Course Participation Form” to the Academic Affairs Section, Educational Affairs Division. After this, they are approved by NAIST upon the successful evaluation of students’ academic achievements. Academic evaluation criteria varies depending on the time of approval as shown in the table below.

※: Faculty member interviews may result in a refusal to give approval from the faculty member of the laboratory the student wishes to enter. In Information Science Division laboratories, participation approval for the 5-year Integrated Course is after enrollment (in December or later).

Date of approval for participation in 5-year Integrated Course	Approval criteria for the 5-year Integrated Course
From admission until laboratory assignment	A score in the top 50% of enrolling students is considered as a standard
After laboratory assignment	Student whose supervisor approve participation in the 5-year Integrated Course

**【Official decisions concerning 5-year Integrated Course students】**

Official decisions for the 5-year Integrated Course are made after the doctoral dissertation research project proposal is completed, from December to February, in the first year of master’s course and receiving evaluation from the main and sub (candidate) supervisors. In addition, even after February of the first year of master’s course, when 5-year Integrated Course students are officially determined, students who wish to advance to doctoral course can apply with their supervisor’s approval. In that case, students are transferred to the 5-year Integrated Course after evaluation at that time. Note that, in principle, the master thesis and examination methods are performed the same as other students. When finalizing Five-year Integrated Course participation, students must confirm the following items. (① - ③)

Even if you decide to participate in the Five-year Integrated Course, you are still required to pass the doctoral course entrance examination to continue your studies.

① Depending on the results of the (candidate) supervisor's evaluation, students may not receive approval for the Five-year Integrated Course. In this case, the supervisor shall adequately explain the reasons for this to the student.

② After formal decision to participate in the Five-year Integrated Course, even if students look for employment in the Master's course, NAIST will not offer any recommendation letters. Also, in April and May of the second year of the Master's course, students are obliged to teach M1 students as a TA.

③ Students employed fulltime are not eligible for the Five-year Integrated Course. (Due to the financial support and the doctoral course long-term study abroad included.)

**【Information concerning withdrawal from the Five-year Integrated Course】**

We prioritize support for students participating in the Five-year Integrated Course, but there are various difficulties students face to acquire degrees. With there being changes in goals and inevitable life changes, we have established the following concerning withdrawal from the Five-year Integrated Course. Please confirm items ① to ⑤ Five-year before submitting the participation form for the Five-year Integrated Course.

- ① Students can withdraw from the Five-year Integrated Course at their discretion upon consultation with their main (candidate) supervisor.
- ② In the event of withdrawal from the Five-year Integrated Course before laboratory assignment, prioritized laboratory assignment shall be withdrawn.
- ③ The main supervisor monitors the student's learning and research progress, the interim report contents, and the TA / RA duties, and, when it is determined that obtaining a degree is difficult, can recommend the student withdraw from the course.
- ④ If students withdraw from the Five-year Integrated Course, the financial support shall be suspended at that time. In this case, those students living in the student dormitory shall leave by the end of the academic year in which they chose to withdraw, at the latest. However, students who would be able to live in the student dormitories if they did not participate in the Five-year Integrated Course based on the screening criteria at the time of entering the student dormitory, are not asked to leave.
- ⑤ If students withdraw after accepting any preferential treatment such as financial support, student dormitory prioritization, laboratory assignment prioritization, TA / RA support, etc., NAIST does not offer any recommendation letters when looking for employment.

Please refer to the following web site for details. For more information, please contact the Educational Affairs Section of the Educational Affairs Division.

[https://www.naist.jp/en/international\\_students/current\\_students/academic\\_affairs/integrated.html](https://www.naist.jp/en/international_students/current_students/academic_affairs/integrated.html)

#### 4 – 6. Double Degree Program

The 21st century has seen globalization rapidly changing industry and social activities. These changes further necessitate research leaders who in addition to managing technological advances, must be able to manage human resources across countries and borders in order to solve important issues on a global scale. NAIST developed the Double Degree Program (DD Program) in order to meet these challenges and systematically develop global research leaders with international collaborative research abilities.

In the DD Program, NAIST doctoral course students are also registered at a partner institution, receiving guidance from both institutions' faculty and PhD degrees from both institutions upon successful completion. The DD Program has been established with the partner institutions listed below. DD programs will start in April or October and students must conduct their studies at each university for at least one academic year. The number of openings for acceptance (partner institution students joining NAIST's doctoral program) and dispatchment (NAIST students joining partner institution's doctoral programs) are limited.

Please see the Division for Global Education homepage for more information and the Admission Information and Application Guide.

[https://www.naist.jp/dge/en/students/abroad/double\\_degree\\_program.html](https://www.naist.jp/dge/en/students/abroad/double_degree_program.html)

Partner institution	Country/region	Research area/department at partner institution	Research area at NAIST
<b>National Chiao Tung University</b>	Taiwan	①College of Science ②College of Electrical and Computer Engineering ③College of Engineering	(1) Program of Information Science and Engineering (2) Program of Computational Biology (3) Program of Biological Science (4) Program of Bionanotechnology (5) Program of Materials Science and Engineering (6) Program of Intelligent Cyber-Physical Systems (7) Program of Data Science
<b>Chulalongkorn University</b>	Thailand	Faculty of Science ①Biochemistry and Molecular Biology	(1) Program of Computational Biology (2) Program of Biological Science (3) Program of Bionanotechnology (4) Program of Data Science
<b>Université Paul Sabatier</b>	France	Physics, chemistry and materials science	Materials science

<b>Université Paris-Saclay</b>	France	①Biology, biochemistry and biotechnology ②Communication systems ③Computer science and informatics ④Earth Sustainability/Environment ⑤Economics ⑥Energy management ⑦Materials science and engineering ⑧Health ⑨Physical and chemical sciences ⑩Universe sciences	Information, biological, and materials sciences
<b>Sorbonne Université</b>	France	Information sciences	Information science
<b>Ulm University</b>	Germany	Computer science and engineering science	Information science
<b>Macquarie University</b>	Australia	①Department of Biological Sciences ②Department of Molecular Sciences ③Department of Chiropractic ④Department of Computing ⑤Department of Earth and Planetary Sciences ⑥School of Engineering ⑦Department of Environmental Sciences ⑧Department of Mathematics and Statistics ⑨Department of Physics and Astronomy	(1) Program of Information Science and Engineering (2) Program of Computational Biology (3) Program of Biological Science (4) Program of Bionanotechnology (5) Program of Materials Science and Engineering (6) Program of Intelligent Cyber-Physical Systems (7) Program of Data Science

#### 4 – 7. Long-term Course Program

##### 【Purpose and overview of the program】

For those who may have difficulty in completing the necessary curriculum within the standard period of study (2 years for the master's course and 3 years for the doctoral course) due to circumstances such as maintaining their careers, this is a program in which you can plan and complete the course of your choice in a longer time frame to accommodate your specific needs.

##### 【Eligible applicants】

1.Those who are employed by government agencies, companies, etc. (excluding those who are granted a leave of absence from their work, etc.), those who are self-employed, and those who are engaged in full-time employment

2.Those who work part-time, etc. and who the president recognizes as being seriously affected, in relation to academic work, by that burden

3.Those who will give birth, or need to provide childcare or care for relatives, and who the president recognize as being seriously affected, in relation to academic work, by that burden

4.hose who correspond persons stipulated in number 3 above and who the president recognizes their circumstances require participation in the long-term course

※ MEXT Scholarship Students are not eligible for the long-term Course Program.

**【Long-term course periods】**

Course	Long-term course starting date	Maximum term of long-term course
Master's course	When entering NAIST	4 years
	For current students	3 years
Doctoral course	When entering NAIST	6 years
	For current students	5 years, if enrollment term is less than 1 year 4 years, if enrollment term is 2 years or less

※ Long-term course periods are in one year units.

※ Long-term course periods may be extended or shortened according to changes in employment conditions, etc.

**【Tuition fee】**

The tuition fee for the long-term course is the same as that necessary for the standard period of study for the specific course.

Long-term course tuition fee = regular annual tuition fee

(535,800 yen [\*current amount]) × standard term of study (in years) ÷ number of years recognized for the long-term course period

[ Example ] When a 3-year long-term course is permitted for the master's course

Category	Annual Tuition Amount			Total Tuition Amount
	1st year	2nd year	3rd year	
Regular student (Standard duration: 2 years)	535,800 yen	535,800 yen		1,071,600 yen
Long-term student (Duration of long-term course: 3 years)	357,200 yen	357,200yen	357,200yen	

[ Example ] When a 3-year long-term course from the second year of the master's course is permitted

Category	Annual Tuition Amount				Total Tuition Amount
	1st year	2nd year	3rd year	4th year	
Regular student for 1st year、 Long-term student from 2nd year to 4th year (Duration of long-term course:3 years)	535,800 yen	178,600 yen	178,600 yen	178,600 yen	1,071,600 yen

**【Applications】**

Please fill out the "Long-term Course Application" and submit it to the Academic Affairs Section, Educational Affairs Division with the necessary documents.

<For current students >

Those who wish to apply for the long-term course should consult with their supervisor and submit the necessary documents to the Academic Affairs Section, Educational Affairs Division by the set deadline.

The deadline depends on the time of admission. Those wishing to apply should contact the Educational Affairs Division, Academic Affairs Section in advance.

※ In the master's course, those students who have completed a period of study in the master's course longer than one year may not apply. In the doctoral course, those students who have completed a period for study in the doctoral course longer than 2 years may not apply.

**【Required documents】**

<For current students >

➤ Long-term Course Application / Long-term Course Plan

(<https://ad-info.naist.jp/gakusei/shinsei.html>)

※ Please consult with your supervisor regarding the Long-term Course Plan.

※ Certificate of employment (For those employed. Please use any format for this.)

※ For those who will give birth, or need to provide childcare or care for relatives, it is necessary to give documentation of this fact.

**【Change of the Long-term Course period, etc.】**

< Extension or shortening of the Long-term Course period >

• If students need to extend or shorten their Long-term Course period due to changes in work environment, etc., they may extend or shorten that period upon receiving permission of the President.

• If you wish to change the Long-term Course period, please consult with your supervisor and submit a Long-term Course Period Change Request to the Educational Affairs Division, Academic Affairs Section by the set deadline. The deadline depends on the time of admission. Those wishing to apply should contact the Educational Affairs Division, Academic Affairs Section in advance.

➤ Long-term Course Period Change Request

([http://www.naist.jp/en/international\\_students/current\\_students/academic\\_affairs/long-term.html](http://www.naist.jp/en/international_students/current_students/academic_affairs/long-term.html))

• Students with less than one year remaining before the end of their approved Long-term Course cannot change their Long-term Course period.

• Students whose Long-term Course period change has been approved cannot apply again to change the Long-term Course period in the same master's or doctoral course.

• When students wish to shorten their period of study, the difference between the tuition fee for the period of study after the shortened period of study and the tuition fee for the period in which the student is already enrolled will be charged.

< Long-term Course withdrawal >

• Students who are enrolled in the long-term Course may withdraw from the course with the permission of the president if they no longer need to take part in the program due to changes in their work environment, etc.

• If you wish to withdraw from the Long-term Course, please consult with your supervisor and submit a Long-term Course Withdrawal Request to the Educational Affairs Division, Academic Affairs

Section by the set deadline. The deadline depends on the time of admission. Those wishing to apply should contact the Educational Affairs Division, Academic Affairs Section in advance.

➤ Long-term Course Withdrawal Request

([http://www.naist.jp/en/international\\_students/current\\_students/academic\\_affairs/long-term.html](http://www.naist.jp/en/international_students/current_students/academic_affairs/long-term.html))

- Students with less than one year remaining before the end of their approved Long-term Course cannot withdraw from the course.

- Students whose withdrawal from the Long-term Course has been approved cannot apply again for the Long-term Course in the same master's or doctoral course.

- When students withdraw from the Long-term Course, the difference between the standard tuition fee and the tuition fee for the period of time already enrolled will be charged.

**【Reference】**

Long-term Course Regulation (<http://reiki.naist.jp/kiyaku/local/pdf/02209.pdf>)

**【Contact】**

Academic Affairs Section, Educational Affairs Division

Nara Institute of Science and Technology

E-mail: [g-gakumu@ad.naist.jp](mailto:g-gakumu@ad.naist.jp)





5 Syllabus, etc.

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## 5 Syllabus, etc.

### 5 – 1. Online Syllabus

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Check the course syllabus at:  
<https://syllabus.naist.jp/>

### 5 – 2. System for Electronic Education Record

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Check the System for Electronic Education Record at:  
[https://ad-info.naist.jp/gakusei/gakumu\\_kankei/EduSys/main.html](https://ad-info.naist.jp/gakusei/gakumu_kankei/EduSys/main.html)

#### \* System for Electronic Education Record

The System for Electronic Education Record is a network system that records the interim evaluation reports during the second year of the Master's Course including evaluation results (milestones) by multiple faculty members such as the main advisor and sub-advisors, areas of improvement, and feedback on the thesis (capstone). This system supports research guidance by faculty members in addition to students being able to more proactively report and communicate their research topics and plans to the advisors.

Please refer to the “System for Electronic Education Record manual” posted on the homepage shown above for how to view the System for Electronic Education Record. Familiarize yourself with how to use the system and regularly check for the latest information.

### 5 – 3. Evaluation of academic performance

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#### ○ Notification of completed grade evaluation

Grades will be reported within three weeks after the completion of the course by the lecturer in charge and will be posted on the homepage and bulletin board, etc.

Students can confirm the subject registration status and 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.

#### ○ Information concerning objections to academic performance evaluation

If you have objections to the grading results you received, please submit a “Letter of Objection concerning Evaluation of Academic Performance” to the Academic Affairs Section of the Educational Affairs Division within one month of receiving your grading results.

(※) Academic Performance Evaluation Objections are possible only when students' cases are deemed as pertaining to one of the following areas.

- ( 1 ) Cases where it is thought there are obvious mistakes in grading, such as paperwork errors, etc.
- ( 2 ) Cases where there are obvious doubts concerning academic performance evaluation in relationship to the grading standards found in the syllabus, etc.

A response to an objection is given either orally or in writing through the Academic Affairs Section of the Educational Affairs Division after review by the Graduate School's Education Committee.

The format for an objection form and the flow chart of the process of handling a claim can be found on the University's homepage.

[https://ad-info.naist.jp/gakusei/gakumu\\_kankei/GradesReleasedDates/main.html](https://ad-info.naist.jp/gakusei/gakumu_kankei/GradesReleasedDates/main.html)

○The GPA [Grade Point Average] system

In order to promote the internationalization of future education and increase the transparency of the grading system, we have introduced a GPA system beginning with the students who entered in the 2018 school year. The GPA system will indicate a student’s relative standing both within and beyond the University. By calculating a GPA, it can become an index for current learning and achievement; we expect this to help students grasp their academic achievement more objectively and utilize it to create their learning plans.

< System Overview >

The GPA system is a common method used in European and American universities to evaluate academic grades. Students receive grade evaluations after course completion and it is converted into Grade Points (GP) with the student’s overall average computed as a single value.

< Calculation Method >

There are five levels of Grade Points (S, A, B, C, D) as shown below.

Definition and Letter Grade	GP	Evaluation Criteria	Criteria out of 100 points
Excellent (S)	4	Achieved learning outcomes with exceptionally high grade.	90 points or more
Very good (A)	3	Achieved learning outcomes with high grade.	80 points or more
Good (B)	2	Achieved learning outcomes with good grade.	70 points or more
Fair (C)	1	Achieved learning outcomes.	60 Points or more
Fail (D)	0	Did not achieve learning outcomes.	less than 60 points

(For Reference)

Definition and Letter Grade	GP	Evaluation Criteria	Criteria out of 100 points
Accredited (N)	Not Applicable	Considered as completed as studied in an academic course at this university.	Not Applicable
Pass (P)	Not Applicable	Reached the academic level for this course.	Not Applicable
Fail (F)	Not Applicable	Did not reach the academic level for this course.	Not Applicable

< Targeted Students >

The students who begin the Master’s Course in the 2018 school year and all subsequent years.

< Targeted Subjects >

All subjects that count towards completion of the Master’s Course in the subject categories shown below. However, if a subject cannot be evaluated by the five-level grading scheme due to the nature of the subject, it will be excluded from the GPA calculation.

- ◇ General Subjects
- ◇ Basic Subjects
- ◇ Specialized Subjects

## &lt;Types of GPAs and Calculation Method&gt;

There is a GPA for the academic year (annual GPA) and a GPA for the entire program (cumulative GPA).

Here are the calculation methods for annual and cumulative GPAs. (Round off to two decimal digits in calculating a GPA.)

 Calculation of an Annual GPA

Annual GPA = The sum for all subjects of (the number of credits for a registered subject for the year  $\times$  GP of the subject)/The total number of credits for the year's subjects.

 Calculation of Cumulative GPA

Cumulative GPA = The sum for all subjects of (the number of credits for a registered subject for the program  $\times$  GP of the subject)/The total number of credits for the program.

## &lt;How to Treat Retake Subjects&gt;

If a student retakes a subject which he/she has failed, and receives a passing grade or another failed grade as a result, the earlier result and credits are excluded from GPA. (The data before the retake will be excluded.)

## &lt;Treatment on Academic Record&gt;

Both the annual GPA and the cumulative GPA will appear on the academic record.

## &lt;Guidelines concerning the Distribution of Academic Performance Evaluations&gt;

1. For the grading scale consisting of S, A, B, and C, particular attention must be paid to prevent the uneven distribution of academic performance evaluations. Especially concerning S and A evaluations, together they should comprise roughly 30% of the evaluations.
2. In the event that there are 20 or less registered students for a course or that the course academic evaluations will be determined on a pass or fail grading scale, these guidelines shall not be applicable.

#### **5 – 4. Toward cultivating globally-aware human resources**

NAIST was selected for the Top Global University Project by the Ministry of Education, Culture, Sports, Science and Technology in September 2014. We promote studying abroad and overseas research in cooperation with our international academic exchange partner institutions. (A list of over 100 partner institutions can be found on the Division for Global Education homepage.) We also support student participation in overseas internship programs and international workshops and conferences.

NAIST offers a systematic English education program to develop students' English skills. Master's course graduates are expected to be able to read academic papers and understand lectures and seminars in English. Doctoral course graduates should be able to give presentations in English, being equipped them with the skills and abilities to answer questions and handle discussion and challenges. Students' English abilities and progress are evaluated through TOEIC testing.

International student from over 30 different countries/regions comprise roughly 25% of the NAIST student population, creating an environment where international students from different backgrounds and cultures study and interact with Japanese students so that NAIST students grow

to be globally-aware human resources who have an international mindset, practical communications skills, excellent techniques in research, and expertise in their fields.

International partner institution list

<https://www.naist.jp/dge/en/engagement/list.html>

#### ○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 (JASSO) Scholarship  
[http://www.jasso.go.jp/ryugaku/study\\_a/scholarship.html](http://www.jasso.go.jp/ryugaku/study_a/scholarship.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 see the following website “Procedures for study / travel abroad” for details.

<https://ad-info.naist.jp/gakusei/member/kaigairyugaku/index.html>

#### ○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.

Information about "Safety when travelling abroad" has been included on the following website to contribute to risk management for those students who will or are travelling abroad. We ask that students check the following website to consider and plan for their safety when abroad.

<https://ad-info.naist.jp/gakusei/member/kaigairyugaku/caution/caution.html>

### ○International travel insurance

At NAIST, international travel insurance in case of injury, etc. domestically and abroad is purchased for students who travel officially for NAIST. The details of the coverage can be found at the following URL(in Japanese). Make sure to check the coverage and details before departure.

<https://ad-info.naist.jp/k-soumu/member/shougaihoken/>

Please note that if you will travel or study abroad during a leave of absence, you are not eligible for the above travel insurance, so you must purchase insurance individually.

In cases where hospitalization or surgery become necessary, medical and other costs for transportation, visitation, etc. may soon become extremely expensive. Additionally, depending on the level of medical treatment and facilities of the destination, transferal to another country may be necessary and require additional payment. Please purchase insurance to protect yourself from these possible expensive costs.

Make sure your family also knows the details of your insurance coverage before your departure.

## **5 – 5. English education**

We offer practical lectures in English given by a native English-speaking professor and English certification examinations to improve the English language ability and equip graduates with useful skills for everyday life (TOEIC score: 650+ for Master's students, 750+ for PhD students). Furthermore, to develop an international perspective, we promote overseas exchange opportunities. Over 10% of our students obtain credits by studying abroad. Finally, we provide opportunities to learn English practically through English editing services for conferences and manuscript submissions.

[https://www.naist.jp/ded/activities\\_en.html](https://www.naist.jp/ded/activities_en.html)

### (1) English courses (1 credit each) [Master's degree]

Intermediate	<ul style="list-style-type: none"> <li>▪ Professional Communication I (ProCom I)</li> <li>▪ Professional Communication II (ProCom II)</li> </ul>
Advanced	<ul style="list-style-type: none"> <li>▪ Academic Discussion</li> <li>▪ Research Presentation</li> <li>▪ Research Writing</li> <li>▪ Advanced Research Writing</li> </ul>

Students must complete two of the six courses above (compulsory courses) as part of their Master's degree. Course selection is partially determined by the TOEIC-IP test scores provided at admission to the program. Students with a TOEIC-IP test score <650 at admission must complete

ProCom I in year 1 and ProCom II in year 2, and improve their TOEIC score to >650 within two years of admission. Students with test scores >650 at admission can select any two advanced courses.

## (2) Xreading

Extensive reading effectively improves English language skills. In addition to the ProCom courses, we use an online system that encourages extensive reading (Xreading) to allow students to access books written in English. The number of books read and the total word count are reflected in the overall grade.

<https://xreading.com>

## (3) TOEIC preparatory lectures

To achieve the target TOEIC score for completion early, we hold TOEIC preparatory lectures in collaboration with standard English courses, three times over the first two years of the Master's or PhD program. Students who are close to achieving their target TOEIC score are selected for this lecture series, and receive an intense three-day lecture, after which they can take the TOEIC-IP exam.

## (4) International English training (PhD program)

In addition to the standard English courses, we will also begin the Hawai'i English Language Program (HELP) at the University of Hawai'i at Manoa, which is a four-week English training program. Our objective is to enable all Japanese PhD candidates to study abroad to develop the students' global awareness and international communication skills.

<https://manoa.hawaii.edu/eslhelp/wordpress/>



6 List of subjects and faculty members in charge, etc.

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## 6 List of subjects and faculty members in charge, etc.

**6 – 1. List of subjects and faculty members in charge in academic year 2021**

Please check the electronic syllabus for more information about the subjects. Details will be updated from time to time.

<https://syllabus.naist.jp/>

List of subjects and faculty members in charge for the Graduate School of Science and Technology in academic year 2021 (Master's Course)

Category	Subject name	Subject Type	Subject Number	Class Code	Number of Credit	Responsible person	Main	Sub	Faculty member in charge	Total Number of Classes	English Subject (primary language of subject)	Remarks
General Subjects	Technology and Professional Ethics	L	1001	A	1	BESSHO Yasumasa	BS	—	BESSHO Yasumasa, AKIYAMA Masahiro, (WATANABE Masataka), (KATO Kikuya)	15		
	Technology and Professional Ethics	L	1001	B	1	(UEMURA Kenji)	IS	—	(UEMURA Kenji)	15		
	Technology and Professional Ethics	L	1001	C	1	(ITO Hiroshi)	IS	—	(ITOH Hiroshi)	15		
	Technology and Professional Ethics	L	1001	D	1	(TAKAHASHI Kenji)	MS	—	(TAKAHASHI Kenji)	15		
	Technology and Professional Ethics	L	1001	E	1	(OONISHI Kazuichi)	MS	—	(OONISHI Kazuichi)	15		
	Technology and Professional Ethics	L	1001	F	1	(ITO Hiroshi)	MS	—	(ITOH Hiroshi)	15		
	Technology and Professional Ethics	L	1001	G	1	(SUGIHARA Kiichi)	IS	—	(SUGIHARA Kiichi)	15	English	
	Philosophy of Science	L	1002	—	1	(NAKAO Hisashi)	IS	—	(NAKAO Hisashi)	15		
	Science Communication	L	1003	—	1	BESSHO Yasumasa	BS	—	BESSHO Yasumasa	15		Collaboration with Social Dialogue Skills Laboratory
	Intellectual Property Right	L	1004	A	1	(KATO Motoki)	IRI (IS)	—	(KATO Motoki)	15		
	Intellectual Property Right	L	1004	B	1	(KUBO Kozo)	IRI (IS)	—	(KUBO Kozo)	15	English	
	Exercise for Intellectual Property Rights	P	1019	—	1	(KUBO Kozo)	IRI (IS)	—	(KUBO Kozo)	15	English	
	Advanced Lecture on Creation of Innovation I	L	1025	—	1	(MITSUI Shoichi)	IS	—	(MITSUI Shoichi), IIDA Hajimu	15		Off Campus
	Advanced Lecture on Creation of Innovation II	L	1026	—	1	(MITSUI Shoichi)	IS	—	(MITSUI Shoichi), IIDA Hajimu	15		Off Campus
	Advanced Lecture on Creation of Innovation III	L	1027	—	1	(MITSUI Shoichi)	IS	—	(MITSUI Shoichi), IIDA Hajimu	15		Off Campus
	Advanced Lecture on Creation of Innovation IV	L	1028	—	1	(MITSUI Shoichi)	IS	—	(MITSUI Shoichi), IIDA Hajimu	15		Off Campus
	Advanced Lecture on Creation of Innovation V	L	1029	—	1	IIDA Hajimu	IS	—	IIDA Hajimu, (MIYASHITA Takahiro), (NAKAGAWA Yoshifumi)	15		Off Campus
	Professional Communication I	L	1010	A	1	Paul McAleese	IEI (BS)	—	Paul McAleese	15	English	
	Professional Communication I	L	1010	B	1	Paul McAleese	IEI (BS)	—	Paul McAleese	15	English	
	Professional Communication I	L	1010	C	1	Paul McAleese	IEI (BS)	—	Paul McAleese	15	English	
	Professional Communication I	L	1010	D	1	McDowell Leigh	IEI (MS)	—	McDowell Leigh	15	English	
	Professional Communication I	L	1010	E	1	McDowell Leigh	IEI (MS)	—	McDowell Leigh	15	English	
	Professional Communication I	L	1010	F	1	(Andrew Atkinson)	IEI (IS)	—	(Andrew Atkinson)	15	English	
	Professional Communication I	L	1010	G	1	(Andrew Atkinson)	IEI (IS)	—	(Andrew Atkinson)	15	English	
	Professional Communication I	L	1010	H	1	(Andrew Atkinson)	IEI (IS)	—	(Andrew Atkinson)	15	English	
	Professional Communication II	L	1011	A	1	Paul McAleese	IEI (BS)	—	Paul McAleese	15	English	
	Professional Communication II	L	1011	B	1	Paul McAleese	IEI (BS)	—	Paul McAleese	15	English	
	Professional Communication II	L	1011	C	1	McDowell Leigh	IEI (MS)	—	McDowell Leigh	15	English	
	Professional Communication II	L	1011	D	1	McDowell Leigh	IEI (MS)	—	McDowell Leigh	15	English	
	Professional Communication II	L	1011	E	1	McDowell Leigh	IEI (MS)	—	McDowell Leigh	15	English	
	Professional Communication II	L	1011	F	1	(Andrew Atkinson)	IEI (IS)	—	(Andrew Atkinson)	15	English	
	Professional Communication II	L	1011	G	1	(Andrew Atkinson)	IEI (IS)	—	(Andrew Atkinson)	15	English	
	Professional Communication II	L	1011	H	1	(Michael Barker)	IEI (IS)	—	(Michael Barker)	15	English	
	Academic Discussion	L	1012	A	1	(Andrew Atkinson)	IEI (IS)	—	(Andrew Atkinson)	15	English	
	Academic Discussion	L	1012	B	1	(Andrew Atkinson)	IEI (IS)	—	(Andrew Atkinson)	15	English	
	Research Presentation	L	1013	A	1	Paul McAleese	IEI (BS)	—	Paul McAleese	15	English	
	Research Presentation	L	1013	B	1	Paul McAleese	IEI (BS)	—	Paul McAleese	15	English	
	Research Presentation	L	1013	C	1	(David Sell)	IEI (IS)	—	(David Sell)	15	English	
	Research Writing	L	1014	A	1	McDowell Leigh	IEI (MS)	—	McDowell Leigh	15	English	
	Research Writing	L	1014	B	1	(NAKAYAMA Yukiko)	IEI (MS)	—	(NAKAYAMA Yukiko)	15	English	
	Research Writing	L	1014	C	1	(Michael Barker)	IEI (IS)	—	(Michael Barker)	15	English	
	Advanced Research Writing	L	1015	A	1	McDowell Leigh	IEI (MS)	—	McDowell Leigh	15	English	
Advanced Research Writing	L	1015	B	1	(NAKAYAMA Yukiko)	IEI (MS)	—	(NAKAYAMA Yukiko)	15	English		
Japanese Culture	L	1016	—	2	(Adrash Bala Sharma)	IEI (IS)	—	(Adrash Bala Sharma)	30	English	International students have priority fieldwork	
Japanese Course I	L	1017	—	2	(IWADE Yukino)	IEI (BS)	—	(IWADE Yukino)	30		For international students	
Japanese Course II	L	1018	—	2	(IWADE Yukino)	IEI (BS)	—	(IWADE Yukino)	30		For international students	
Japanese Course III	L	1020	—	2	(HASHIMOTO Masako)	IEI (BS)	—	(HASHIMOTO Masako)	30		For international students	
Japanese Course IV	L	1021	—	2	(HASHIMOTO Masako)	IEI (BS)	—	(HASHIMOTO Masako)	30		For international students	

Category	Subject name	Subject Type	Subject Number	Class Code	Number of Credit	Responsible person	Main	Sub	Faculty member in charge	Total Number of Classes	English Subject (primary language of subject)	Remarks
General Subjects	Japanese Course V	L	1022	-	2	(KOMA Michi)	IEI (BS)	-	(KOMA Michi)	30		For international students
	Academic Volunteer I	P	1023	-	1	Program Director	IS	-	Depends on Theme	-	-	
	Academic Volunteer II	P	1024	-	1	Program Director	IS	-	Depends on Theme	-	-	
	BioDX Programming I	P	1030	-	1	ENDO Motomu	BS	-	KATO Hirokazu, SUETSUGU Shiro, SAKUMURA Yuichi, TOHGE Takayuki			
	BioDX Programming II	P	1031	-	1	ENDO Motomu	BS	-	KATO Hirokazu, SUETSUGU Shiro, SAKUMURA Yuichi, TOHGE Takayuki			
	BioDX Data Processing I	P	1032	-	1	ENDO Motomu	BS	-	KATO Hirokazu, SUETSUGU Shiro, SAKUMURA Yuichi, TOHGE Takayuki			
Introduction Subjects	BioDX Data Processing II	P	1033	-	1	ENDO Motomu	BS	-	KATO Hirokazu, SUETSUGU Shiro, SAKUMURA Yuichi, TOHGE Takayuki			
	Introduction to Information Science and Engineering	L	2001	A	1	NAKASHIMA Yasuhiko	IS	-	NAKASHIMA Yasuhiko, YASUMOTO Keiichi, IIDA Hajimu, INOUE Michiko, OSHITA Fukuhito	15	English	
	Introduction to Information Science and Engineering	L	2001	B	1	NAKASHIMA Yasuhiko	IS	-	NAKASHIMA Yasuhiko, YASUMOTO Keiichi, IIDA Hajimu, INOUE Michiko, OSHITA Fukuhito	15	English	
	Introduction to Biological Science	L	2003	A	1	ISHIDA Yasumasa	BS	-	YOSHIDA Shosuke, ISHIDA Yasumasa, DEMURA Taku, ENDO Motomu	15		
	Introduction to Biological Science	L	2003	B	1	ISHIDA Yasumasa	BS	-	DEMURA Taku, ENDO Motomu, YOSHIDA Shosuke, ISHIDA Yasumasa	15		
	Introduction to Biological Science	L	2003	C	1	ISHIDA Yasumasa	BS	-	ISHIDA Yasumasa, YOSHIDA Shosuke, DEMURA Taku, ENDO Motomu	15	English	
	Introduction to Materials Science and Engineering	L	2005	A	1	Program Director	MS	-	URAOKA Yukiharu, OHTA Jun, NAKAMURA Masakazu, HOSOKAWA Yohichiroh, MATSUSHITA Tomohiro, YANAGI Hisao, YANAGIDA Takayuki, AJIRO Hiroharu, KAMIKUBO Hironari, KAWAI Tsuyoshi, HIROTA Shun, YAMADA Hiroko, Gwénaél Rapenne, MIYAO Tomoyuki, FUJII Mikiya, TAKAHASHI Masanari, KITAMURA Keishi, TANAKA Hiroyuki, HONDA Takahiro, YOGO Katsunori	15		
	Introduction to Materials Science and Engineering	L	2005	B	1	Program Director	MS	-	URAOKA Yukiharu, OHTA Jun, NAKAMURA Masakazu, HOSOKAWA Yohichiroh, MATSUSHITA Tomohiro, YANAGI Hisao, YANAGIDA Takayuki, AJIRO Hiroharu, KAMIKUBO Hironari, KAWAI Tsuyoshi, HIROTA Shun, YAMADA Hiroko, Gwénaél Rapenne, MIYAO Tomoyuki, FUJII Mikiya, TAKAHASHI Masanari, KITAMURA Keishi, TANAKA Hiroyuki, HONDA Takahiro, YOGO Katsunori	15	English	
	Introduction to Interdisciplinary Research Programs	L	2008	A	1	Data Science Program Director			Computational Biology (2 classes) : KANAYA Shigehiko, SAKUMURA Yuichi, BESSHO Yasumasa Bionanotechnology (2 classes) : 1: HIROTA, AJIRO, YASUHARA, KAMIKUBO, 2: TAKAGI Hiroshi, SASAI Noriaki, ITO Toshiro Intelligent Cyber-Physical Systems (2 classes) : URAOKA Yukiharu, INOUE Michiko Data Science (2 classes) : NAKAMURA, SAKUMURA, ONO, MIYAO	15	English	
	Introduction to Interdisciplinary Research Programs	L	2008	B	1	Data Science Program Director			Computational Biology (2 classes) : KANAYA Shigehiko, SAKUMURA Yuichi, BESSHO Yasumasa Bionanotechnology (2 classes) : 1: HIROTA, AJIRO, YASUHARA, KAMIKUBO, 2: TAKAGI Hiroshi, SASAI Noriaki, ITO Toshiro Intelligent Cyber-Physical Systems (2 classes) : URAOKA Yukiharu, INOUE Michiko Data Science (2 classes) : NAKAMURA, SAKUMURA, ONO, MIYAO	15	English	
Basic Subjects	Fundamentals of Information Science I	L	3031	A	1	OKADA Minoru	IS	-	OKADA Minoru, IKEDA Kazushi, HAYASHI Yuichi, ARAI Ismail, ICHIKAWA Kohei	15	English	
	Fundamentals of Information Science I	L	3031	B	1	OKADA Minoru	IS	-	OKADA Minoru, IKEDA Kazushi, HAYASHI Yuichi, ARAI Ismail, ICHIKAWA Kohei	15	English	
	Fundamentals of Information Science II	L	3032	A	1	KIYOKAWA Kiyoshi	IS	-	SATO Yoshinobu, KASAHARA Shoji, KATO Hirokazu, KANBARA Masayuki, SASABE Masahiro, SUGIMOTO Kenji, ARAMAKI Eiji, SUDO Katsuhito, KIYOKAWA Kiyoshi	15	English	
	Fundamentals of Information Science II	L	3032	B	1	KIYOKAWA Kiyoshi	IS	-	SATO Yoshinobu, KASAHARA Shoji, KATO Hirokazu, KANBARA Masayuki, SASABE Masahiro, SUGIMOTO Kenji, ARAMAKI Eiji, SUDO Katsuhito, KIYOKAWA Kiyoshi	15	English	
	Programming Course	P	3002	-	1	ISHIO Takashi	IS	-	MATSUMOTO Kenichi, ISHIO Takashi, HATA Hideaki, Raula Gaikovina Kula	30	English	
	Molecular Biology	L	3012	A	1	KATO Ko	BS	-	AKIYAMA Masahiro, KATO Ko, ITO Toshiro, KURISAKI Akira	15		
	Molecular Biology	L	3012	B	1	KURISAKI Akira	BS	-	AKIYAMA Masahiro, KATO Ko, ITO Toshiro, KURISAKI Akira	15		
	Molecular Biology	L	3012	C	1	KATO Ko	BS	-	AKIYAMA Masahiro, KATO Ko, ITO Toshiro, KURISAKI Akira	15	English	International students have priority
	Cell Membranes and Transport	L	3013	A	1	KIMATA Yukio	BS	-	KIMATA Yukio, SUETSUGU Shiro, TSUKAZAKI Tomoya	15		
	Cell Membranes and Transport	L	3013	B	1	OKAMURA Katsutomu	BS	-	OKAMURA Katsutomu, KIMATA Yukio, SUETSUGU Shiro, TSUKAZAKI Tomoya	15		
	Cell Membranes and Transport	L	3013	C	1	KIMATA Yukio	BS	-	OKAMURA Katsutomu, KIMATA Yukio, SUETSUGU Shiro, TSUKAZAKI Tomoya	15	English	International students have priority
	Cell Signaling	L	3014	A	1	SAIJO Yusuke	BS	-	SAIJO Yusuke, MATSUI Takaaki, YOSHIDA Satoko	15		
	Cell Signaling	L	3014	B	1	MATSUI Takaaki	BS	-	MATSUI Takaaki, YOSHIDA Satoko, SAIJO Yusuke	15		
	Cell Signaling	L	3014	C	1	YOSHIDA Satoko	BS	-	SAIJO Yusuke, YOSHIDA Satoko, MATSUI Takaaki	15	English	International students have priority
Microbial Science	L	3015	-	1	AKIYAMA Masahiro	BS	-	AKIYAMA Masahiro, TAKAGI Hiroshi, INUI Masayuki, (MORIYA Hisao), (NAGAI Hiroki), (OSHIMA Taku), (HASUNUMA Tomohisa)	15			
Plant Science	L	3016	-	1	TOHGE Takayuki	BS	-	ITO Toshiro, HASHIMOTO Takashi, NAKAJIMA Keiji, DEMURA Taku, UMEDA Masaaki, SAIJO Yusuke, YOSHIDA Satoko, TOHGE Takayuki	15			
Biomedical Science	L	3017	-	1	SUETSUGU Shiro	BS	-	SUETSUGU Shiro, (KOUNO Kenji), KAWAI Taro, SASAI Noriaki, BESSHO Yasumasa, ISOTANI Ayako, MATSUI Takaaki, OKAMURA Katsutomu, (HAKOSHIMA Toshio)	15			

6 List of subjects and faculty members in charge, etc.

Category	Subject name	Sub ject Type	Subject Number	Class Code	Num ber of Credit	Responsible person	Main	Sub	Faculty member in charge	Total Num ber of Class es	English Subject (primary language of subject)	Remarks
Basic Subjects	Cytoskeleton and Cell Cycle	L	3018	A	1	INAGAKI Naoyuki	BS	—	INAGAKI Naoyuki, KATO Junya	15		
	Cytoskeleton and Cell Cycle	L	3018	B	1	UMEDA Masaaki	BS	—	UMEDA Masaaki, HASHIMOTO Takashi	15		
	Cytoskeleton and Cell Cycle	L	3018	C	1	UMEDA Masaaki	BS	—	UMEDA Masaaki, HASHIMOTO Takashi	15	English	International students have priority
	Genetics and Stem Cell Biology	L	3019	A	1	NAKAJIMA Keiji	BS	—	NAKAJIMA Keiji, ISHIDA Yasumasa, SASAI Noriaki, ISOTANI Ayako	15		
	Genetics and Stem Cell Biology	L	3019	B	1	ISHIDA Yasumasa	BS	—	ISHIDA Yasumasa, ISOTANI Ayako	15		
	Genetics and Stem Cell Biology	L	3019	C	1	ISOTANI Ayako	BS	—	NAKAJIMA Keiji, SASAI Noriaki	15	English	International students have priority
	Gene Cloning and DNA Analysis	L	3020	—	1	BESSHO Yasumasa	BS	—	BESSHO Yasumasa, AKIYAMA Masahiro, KIMATA Yukio	15	English	For international students
	Introduction to NAIST Bioscience	L	3033	—	1	DEMURA Taku	BS	—	HASHIMOTO Takashi, NAKAJIMA Keiji, DEMURA Taku, UMEDA Masaaki, ITO Toshiro, ENDO Motomu, SAIJO Yusuke, TOHGE Takayuki, YOSHIDA Satoko, ITOH Hiroshi, ISHIDA Yasumasa, KATO Junya, KAWAI Taro, SUETSUGU Shiro, OKAMURA Katsutomo, KURISAKI Akira, SASAI Noriaki, ISOTANI Ayako, BESSHO Yasumasa, INAGAKI Naoyuki, AKIYAMA Masahiro, TAKAGI Hiroshi, KIMATA Yukio, YOSHIDA Shosuke, TSUKAZAKI Tomoya, SAKUMURA Yuichi, INUI Masayuki	15	Japanese	
	Mathematical Analyses for Materials Science	L	3021	A	1	TAKEDA Sakura	MS	—	YASUKUNI Ryohei, MIZUNO Hitoshi, YAMASHITA Atsushi, TAKEDA Sakura, YAMAZAKI Yoichi, HARUTA Makito, HASHIMOTO Yusuke	15		
	Mathematical Analyses for Materials Science	L	3021	B	1	TAKEDA Sakura	MS	—	YASUKUNI Ryohei, MIZUNO Hitoshi, YAMASHITA Atsushi, TAKEDA Sakura, YAMAZAKI Yoichi, HARUTA Makito, Juan Paolo S. Bermundo	15	English	International students have priority
	Quantum Mechanics	L	3022	A	1	NAKAMURA Masakazu	MS	—	NAKAMURA Masakazu, HATTORI Ken	15		
	Quantum Mechanics	L	3022	B	1	NAKAMURA Masakazu	MS	—	NAKAMURA Masakazu, HATTORI Ken	15	English	International students have priority
	Core Quantum Mechanics II	L	3023	A	1	HOSOKAWA Yoichiroh	MS	—	HOSOKAWA Yoichiroh, HATTORI Ken, UENUMA Mutsunori	15		
	Core Quantum Mechanics II	L	3023	B	1	HOSOKAWA Yoichiroh	MS	—	HOSOKAWA Yoichiroh, HATTORI Ken, UENUMA Mutsunori	15	English	International students have priority
	Core Physical Chemistry I	L	3024	A	1	KAWAI Tsuyoshi	MS	—	KAWAI Tsuyoshi, KAMIKUBO Hironari, ARATANI Naoki, AJIRO Hiroharu, YASUHARA Kazuma	15		
	Core Physical Chemistry I	L	3024	B	1	KAWAI Tsuyoshi	MS	—	KAWAI Tsuyoshi, KAMIKUBO Hironari, ARATANI Naoki, AJIRO Hiroharu, YASUHARA Kazuma	15	English	International students have priority
	Physical Chemistry	L	3025	A	1	YANAGI Hisao	MS	—	YANAGI Hisao, FUJII Mikiya, BENTEN Hiroaki	15		
	Physical Chemistry	L	3025	B	1	YANAGI Hisao	MS	—	YANAGI Hisao, FUJII Mikiya, BENTEN Hiroaki	15	English	International students have priority
	Core Solid State Physics I	L	3026	A	1	MATSUSHITA Tomohiro	MS	—	MATSUSHITA Tomohiro, KATSUKI Hiroyuki	15		
	Core Solid State Physics I	L	3026	B	1	MATSUSHITA Tomohiro	MS	—	MATSUSHITA Tomohiro, KATSUKI Hiroyuki	15	English	International students have priority
	Core Solid State Physics II	L	3027	A	1	YANAGIDA Takayuki	MS	—	YANAGIDA Takayuki, KAWAGUCHI Noriaki	15		
	Core Solid State Physics II	L	3027	B	1	YANAGIDA Takayuki	MS	—	YANAGIDA Takayuki, KAWAGUCHI Noriaki	15	English	International students have priority
	Core Molecular Science I	L	3028	A	1	NAKASHIMA Takuya	MS	—	NAKASHIMA Takuya, MORIMOTO Tsumoru	15		
	Core Molecular Science I	L	3028	B	1	NAKASHIMA Takuya	MS	—	NAKASHIMA Takuya, MORIMOTO Tsumoru	15	English	International students have priority
	Core Molecular Science II	L	3029	A	1	HIROTA Shun	MS	—	HIROTA Shun, ARATANI Naoki, MATSUO Takashi	15		
	Core Molecular Science II	L	3029	B	1	HIROTA Shun	MS	—	HIROTA Shun, ARATANI Naoki, MATSUO Takashi	15	English	International students have priority
	Biomaterials Chemistry	L	3030	A	1	KAMIKUBO Hironari	MS	—	KAMIKUBO Hironari, YASUHARA Kazuma, TOMA Sachiko	15		
	Biomaterials Chemistry	L	3030	B	1	KAMIKUBO Hironari	MS	—	KAMIKUBO Hironari, YASUHARA Kazuma, TOMA Sachiko	15	English	International students have priority
	Semiconductor Materials	L	3034	A	1	URAOKA Yukiharu	MS	—	URAOKA Yukiharu, UENUMA Mutsunori, MIYAKE Masato, BENTEN Hiroaki	15		
	Semiconductor Materials	L	3034	B	1	URAOKA Yukiharu	MS	—	URAOKA Yukiharu, UENUMA Mutsunori, MIYAKE Masato, BENTEN Hiroaki	15	English	International students have priority
	Optoelectronics	L	3035	A	1	SASAGAWA Kiyotaka	MS	—	SASAGAWA Kiyotaka, HOSOKAWA Yoichiroh, Yalikun Yaxiaer	15		
	Optoelectronics	L	3035	B	1	SASAGAWA Kiyotaka	MS	—	SASAGAWA Kiyotaka, HOSOKAWA Yoichiroh, Yalikun Yaxiaer	15	English	International students have priority
	Organic Synthesis and Polymer Science	L	3036	A	1	YAMADA Hiroko	MS	—	YAMADA Hiroko, AJIRO Hiroharu	15		
Organic Synthesis and Polymer Science	L	3036	B	1	AJIRO Hiroharu	MS	—	Gwénaél Rapenne, AJIRO Hiroharu	15	English	International students have priority	
Software Engineering	L	4006	—	1	MATSUMOTO Kenichi	IS	—	MATSUMOTO Kenichi, ISHIO Takashi, HATA Hideaki, Raula Gaikovina Kula	15	English		
Cyber Security	L	4090	—	1	KADOBAYASHI Yuki	IS	—	KADOBAYASHI Yuki, TAENAKA Yuzo, Doudou Fall	15	English		
Transmission Theory	L	4091	—	1	OKADA Minoru	IS	—	OKADA Minoru, HIGASHINO Takeshi, Duong Qiang Thang, Chen Na	15	English		
High-performance Computing Platforms	L	4092	—	1	NAKASHIMA Yasuhiko	IS	—	NAKASHIMA Yasuhiko, ZHANG Renyuan	15	English		
Advanced Algorithm Design	L	4093	—	1	INOUE Michiko	IS	—	INOUE Michiko, OSHITA Fukuhito	15	English		
Systems Resource Management	L	4094	—	1	KASAHARA Shoji	IS	—	KASAHARA Shoji, SASABE Masahiro	15	English		
Hardware Security	L	4038	—	1	HAYASHI Yuichi	IS	—	HAYASHI Yuichi, FUJIMOTO Daisuke, Kim Youngwoo	15	English		
Robust/Optimal Control	L	4095	—	1	SUGIMOTO Kenji	IS	—	SUGIMOTO Kenji, HANADA Kenta, KOBAYASHI Taisuke	15	English		
Software Systems Development	L	4096	—	1	IIDA Hajimu	IS	—	IIDA Hajimu, ICHIKAWA Kohei, TAKAHASHI Keichi	15	English		
Computer Network	L	4008	—	1	FUJIKAWA Kazutoshi	IS	—	FUJIKAWA Kazutoshi, (INOMATA Atsuo), ARAI Ismail, KAKIUCHI Masatoshi	15	English		
Ubiquitous Systems	L	4003	—	1	YASUMOTO Keiichi	IS	—	YASUMOTO Keiichi, SUWA Hirohiko, FUJIMOTO Manato, MATSUDA Yuki	15	English		
Sequential Data Modeling	L	4034	—	1	SUDO Katsuhito	IS	—	SUDO Katsuhito, Sakriani Sakti, YOSHINO Koichiro	15	English		

List of subjects and faculty members in charge in academic year 2021

Category	Subject name	Sub ject Type	Subject Number	Class Code	Num ber of Credit	Responsible person	Main	Sub	Faculty member in charge	Total Num ber of Class es	English Subject (primary language of subject)	Remarks
Specialized Subjects	Visual Media Processing I	L	4097	-	1	KATO Hirokazu	IS	-	KATO Hirokazu, KANBARA Masayuki, FUJIMOTO Yuichiro	15	English	
	Visual Media Processing II	L	4098	-	1	MUKAIGAWA Yasuhiro	IS	-	MUKAIGAWA Yasuhiro, FUNATOMI Takuya, FUJIMURA Yuki	15	English	
	Data Mining	L	4099	-	1	KANAYA Shigehiko	IS	-	KANAYA Shigehiko, Md.Altaf-Ul-Amin, ONO Naoaki, HUANG Ming	15	English	
	Multidimensional Signal Processing	L	4100	-	1	SATO Yoshinobu	IS	-	SATO Yoshinobu, OTAKE Yoshito	15	English	
	Robotics	L	4101	-	1	WADA Takahiro	IS	-	WADA Takahiro, TAKAMATSU Jun	15	English	
	Natural Language Processing	L	4102	-	1	ARAMAKI Eiji	IS	-	ARAMAKI Eiji, WATANABE Taro, WAKAMIYA Shoko, SHINDO Hiroyuki, OUCHI Hiroki, YADA Shuntaro, LIEW Kongmeng	15	English	
	Human Information Processing	L	4103	-	1	KIYOKAWA Kiyoshi	IS	-	KIYOKAWA Kiyoshi, SAKATA Nobuchika, ISOYAMA Naoya	15	English	
	Mathematical Models in Biology	L	4104	-	1	IKEDA Kazushi	IS	-	IKEDA Kazushi, YOSHIMOTO Junichiro, FUKUSHIMA Makoto, HIEDA Chie	15	English	
	Data Science	L	4105	-	1	NAKAMURA Satoshi	DSC (IS)	-	NAKAMURA Satoshi, FUNATSU Kimito, MIYAO Tomoyuki, ONO Naoaki, TANAKA Hiroki, MUTO Ai, KUNIDA Katsuyuki	15	English	
	Special Lecture in Information Science A	L	4029	-	1		IS	-	(A and B are held on alternating years)	15	English	Alternating years (Not offered in 2021)
	Special Lecture in Information Science B	L	4030	-	1	Program Director	IS	-	SHINAGAWA Seitaro, CHO Sung Gwi, HANADA Kenta, HIEDA Chie, YADA Shuntaro, Duong Quang Thang, KOBAYASHI Taisuke, HUANG Ming, Tran Thi Hong	15	English	Alternating years
	Special Lecture in Information Science C	L	4031	-	1		IS	-	(C and D are held on alternating years)	15	English	Alternating years (Not offered in 2021)
	Special Lecture in Information Science D	L	4032	-	1	Program Director	IS	-	SHINAGAWA Seitaro, CHO Sung Gwi, HANADA Kenta, HIEDA Chie, YADA Shuntaro, Duong Quang Thang, KOBAYASHI Taisuke, HUANG Ming, Tran Thi Hong	15	English	Alternating years
	System Requirements Engineering	L	4086	-	1	IIDA Hajimu	IS	-	(TANAKA Yasushi), (TAKAI Toshinori), IIDA Hajimu	15	Japanese	
	Systems Development Process	L	4087	-	1	IIDA Hajimu	IS	-	(TANAKA Yasushi), (TAKAI Toshinori), IIDA Hajimu	15	Japanese	
	Lecture of Information Security Management Literacy I	L	4042	-	1	FUJIKAWA Kazutoshi	IS	-	(SUNAHARA Hideki), FUJIKAWA Kazutoshi, KADOBAYASHI Yuki, (INOMATA Atsuo), HAYASHI Yuichi	15	Japanese	(Osaka University Nakanoshima Center)
	Lecture of Information Security Management Literacy II	L	4043	-	1	FUJIKAWA Kazutoshi	IS	-	(SUNAHARA Hideki), FUJIKAWA Kazutoshi, KADOBAYASHI Yuki, (INOMATA Atsuo), HAYASHI Yuichi	15	Japanese	(Osaka University Nakanoshima Center)
	Exercise for Information Security A	P	4044	-	1	FUJIKAWA Kazutoshi	IS	-	FUJIKAWA Kazutoshi, KADOBAYASHI Yuki, HAYASHI Yuichi	15	Japanese	
	Exercise for Information Security B	P	4045	-	1	FUJIKAWA Kazutoshi	IS	-	FUJIKAWA Kazutoshi, KADOBAYASHI Yuki, HAYASHI Yuichi, (HONMA Nofumi)	15	Japanese	
	Exercise for Information Security C	P	4046	-	1	FUJIKAWA Kazutoshi	IS	-	FUJIKAWA Kazutoshi, KADOBAYASHI Yuki, HAYASHI Yuichi, (KAWAHASHI Yutaka), (YAMAJI Masashi)	15	Japanese	
	Advanced Lecture in Developmental Biology	L	4054	-	1	SASAI Noriaki	BS	-	SASAI Noriaki, BESSHO Yasumasa	15		Collaboration with Riken CDB
	Advanced Techniques in Bioscience	L	4055	A	1	OKAMURA Katsutomu	BS	-	BESSHO Yasumasa, OKAMURA Katsutomu, ISHIDA Yasumasa, AKIYAMA Masahiro, TOHGE Takayuki, KURISAKI Akira, (MIYOSHI Goich), (KUBO Minoru), (INADA Noriko)	15		
	Advanced Techniques in Bioscience	L	4055	B	1	OKAMURA Katsutomu	BS	-	BESSHO Yasumasa, OKAMURA Katsutomu, ISHIDA Yasumasa, AKIYAMA Masahiro, TOHGE Takayuki, KURISAKI Akira, (MIYOSHI Goich), (KUBO Minoru), (INADA Noriko)	15	English	
	Plant Developmental Physiology	L	4056	-	1	DEMURA Taku	BS	-	ITO Toshiro, ENDO Motomu, SAIJO Yusuke, DEMURA Taku, TOHGE Takayuki, NAKAJIMA Keiji, HASHIMOTO Takashi, YOSHIDA Satoko	15		
	Developmental Biology of Animals	L	4057	-	1	SASAI Noriaki	BS	-	SASAI Noriaki, MATSUI Takaaki, INAGAKI Naoyuki, ISOTANI Ayako, KURISAKI Akira	15		
	Pharmacology and Pathological Chemistry	L	4058	-	1	ITOH Hiroshi	BS	-	ITOH Hiroshi, (HAKOSHIMA Toshio), BESSHO Yasumasa, KIMATA Yukio, TSUKAZAKI Tomoya	15		
	Immunology	L	4059	-	1	KAWAI Taro	BS	-	KAWAI Taro, ISHIDA Yasumasa, SAIJO Yusuke, (MAEDA Kazuhiko)	15		
	The Biology of Genome and Cancer	L	4060	-	1	KATO Junya	BS	-	KATO Junya, SUETSUGU Shiro, AKIYAMA Masahiro, (KATO Kikuya), (KUKITA Yoji), (MORI Hirotsada)	15		
	Survival Biology -How to Read Scientific Papers-	L	4106	-	1	YOSHIDA Satoko	BS	-	YOSHIDA Satoko, (KOUNO Kenji), (MAKI Hisaji)	15		
	International Forefront in Bioscience A	L	4062	-	1	ENDO Motomu	BS	-	ENDO Motomu, MAKI Satoko	15	English	
	International Forefront in Bioscience B	L	4063	-	1	ENDO Motomu	BS	-	ENDO Motomu, MAKI Satoko	15	English	
	Big Data in Bioscience	L	4064	-	1	SAKUMURA Yuichi	BS	-	SAKUMURA Yuichi, (Visiting Lecturer)	15	English	
	Logic in Scientific Discovery	L	4089	-	1	ENDO Motomu	BS	-	ENDO Motomu, MAKI Satoko	15	English	
	Applied Life Science	L	4107	A	1	TSUKAZAKI Tomoya	BS	-	KATO Ko, TOHGE Takayuki, YOSHIDA Satoko, TSUKAZAKI Tomoya, KIMATA Yukio, YOSHIDA Shosuke, ISOTANI Ayako, ISHIDA Yasumasa, ICHIKAWA Muneyoshi	15		
	Applied Life Science	L	4107	B	1	TSUKAZAKI Tomoya	BS	-	KATO Ko, TOHGE Takayuki, YOSHIDA Satoko, TSUKAZAKI Tomoya, KIMATA Yukio, YOSHIDA Shosuke, ISOTANI Ayako, ISHIDA Yasumasa, ICHIKAWA Muneyoshi	15	English	
	Development of Bioscience Into Industry	L	4108	-	1	TAKAGI Hiroshi	BS	-	TAKAGI Hiroshi, (SHINJOH Masako), (TANAKA Yoshiyazu), (ITO Masashi), (TAKUMI Kazuhiro), (IKO Ryo), (NAKATANI Takeshi), (SATO Shunsuke), (SATO Takaaki)	15		
	Social Implementation of Science and Technology	L	4109	-	1	YOSHIDA Shosuke	BS	-	YOSHIDA Shosuke, (SHINJOH Masako)	15	English	
	Statistics and Mathematics in Bioscience	L	4110	-	1	SAKUMURA Yuichi	BS	-	SAKUMURA Yuichi, KUNIDA Katsuyuki	15		
	Advanced Topics in Biological Science A	L	4111	-	1	SAIJO Yusuke	BS	-	(A and B are held on alternating years)	15	English	Alternating years (Not offered in 2021)
	Advanced Topics in Biological Science B	L	4112	-	1	SAIJO Yusuke	BS	-	SAIJO Yusuke, TAKAHASHI Naoki, SHIRAKAWA Makoto, SHIMIZU Takafumi, TORIYAMA Manami, NISHIMURA Tamako, TAKADA Hitomi, MUTO Ai	15	English	Alternating years

6 List of subjects and faculty members in charge, etc.

Category	Subject name	Subject Type	Subject Number	Class Code	Number of Credit	Responsible person	Main	Sub	Faculty member in charge	Total Number of Classes	English Subject (primary language of subject)	Remarks
Specialized Subjects	Advanced Bioscience Seminar I	L	4113	A	1	ITO Toshiro	BS	—	HASHIMOTO Takashi, NAKAJIMA Keiji, DEMURA Taku, UMEDA Masaaki, ITO Toshiro, ENDO Motomu, SAIJO Yusuke, TOHGE Takayuki, YOSHIDA Satoko, ITOH Hiroshi, ISHIDA Yasumasa, KATO Junya, KAWAI Taro, SUETSUGU Shiro, OKAMURA Katsutomo, KURISAKI Akira, SASAI Noriaki, ISOTANI Ayako, BESSHO Yasumasa, INAGAKI Naoyuki, AKIYAMA Masahiro, TAKAGI Hiroshi, KIMATA Yukio, YOSHIDA Shosuke, TSUKAZAKI Tomoya, SAKUMURA Yuichi, INUI Masayuki	15		
	Advanced Bioscience Seminar I	L	4113	B	1	ITO Toshiro	BS	—	HASHIMOTO Takashi, NAKAJIMA Keiji, DEMURA Taku, UMEDA Masaaki, ITO Toshiro, ENDO Motomu, SAIJO Yusuke, TOHGE Takayuki, YOSHIDA Satoko, ITOH Hiroshi, ISHIDA Yasumasa, KATO Junya, KAWAI Taro, SUETSUGU Shiro, OKAMURA Katsutomo, KURISAKI Akira, SASAI Noriaki, ISOTANI Ayako, BESSHO Yasumasa, INAGAKI Naoyuki, AKIYAMA Masahiro, TAKAGI Hiroshi, KIMATA Yukio, YOSHIDA Shosuke, TSUKAZAKI Tomoya, SAKUMURA Yuichi, INUI Masayuki	15	English	
	Advanced Bioscience Seminar II	L	4114	A	1	ITO Toshiro	BS	—	HASHIMOTO Takashi, NAKAJIMA Keiji, DEMURA Taku, UMEDA Masaaki, ITO Toshiro, ENDO Motomu, SAIJO Yusuke, TOHGE Takayuki, YOSHIDA Satoko, ITOH Hiroshi, ISHIDA Yasumasa, KATO Junya, KAWAI Taro, SUETSUGU Shiro, OKAMURA Katsutomo, KURISAKI Akira, SASAI Noriaki, ISOTANI Ayako, BESSHO Yasumasa, INAGAKI Naoyuki, AKIYAMA Masahiro, TAKAGI Hiroshi, KIMATA Yukio, YOSHIDA Shosuke, TSUKAZAKI Tomoya, SAKUMURA Yuichi, INUI Masayuki	15		
	Advanced Bioscience Seminar II	L	4114	B	1	ITO Toshiro	BS	—	HASHIMOTO Takashi, NAKAJIMA Keiji, DEMURA Taku, UMEDA Masaaki, ITO Toshiro, ENDO Motomu, SAIJO Yusuke, TOHGE Takayuki, YOSHIDA Satoko, ITOH Hiroshi, ISHIDA Yasumasa, KATO Junya, KAWAI Taro, SUETSUGU Shiro, OKAMURA Katsutomo, KURISAKI Akira, SASAI Noriaki, ISOTANI Ayako, BESSHO Yasumasa, INAGAKI Naoyuki, AKIYAMA Masahiro, TAKAGI Hiroshi, KIMATA Yukio, YOSHIDA Shosuke, TSUKAZAKI Tomoya, SAKUMURA Yuichi, INUI Masayuki	15	English	
	Electronic Properties and Atomic Structures of Solids and Surfaces Special	L	4066	A	1	MATSUSHITA Tomohiro	MS	—	MATSUSHITA Tomohiro, HATTORI Ken, TAKEDA Sakura, HASHIMOTO Yusuke	15		Held in Japanese
	Electronic Properties and Atomic Structures of Solids and Surfaces Special	L	4066	B	1	MATSUSHITA Tomohiro	MS	—	MATSUSHITA Tomohiro, HATTORI Ken, TAKEDA Sakura, HASHIMOTO Yusuke	15	English	Held in English in alternating years (Not offered in 2021)
	Light and Information Devices Special	L	4068	A	1	URAOKA Yukiharu	MS	—	URAOKA Yukiharu, UENUMA Mutsunori, Yalikun Yaxiaer	15		Held in Japanese
	Light and Information Devices Special	L	4068	B	1	URAOKA Yukiharu	MS	—	URAOKA Yukiharu, UENUMA Mutsunori, Yalikun Yaxiaer	15	English	Held in English in alternating years (Offered in 2021)
	Biomolecular Science	L	4070	A	1	HIROTA Shun	MS	—	HIROTA Shun, MATSUO Takashi, KAMIKUBO Hironari, TOMA Sachiko	15		Held in Japanese
	Biomolecular Science	L	4070	B	1	HIROTA Shun	MS	—	HIROTA Shun, MATSUO Takashi, KAMIKUBO Hironari, TOMA Sachiko	15	English	Held in English in alternating years (Offered in 2021)
	Molecular Photo-science	L	4072	A	1	YAMADA Hiroko	MS	—	YAMADA Hiroko, ARATANI Naoki, KAWAI Tsuyoshi, NAKASHIMA Takuya	15		Held in Japanese
	Molecular Photo-science	L	4072	B	1	YAMADA Hiroko	MS	—	YAMADA Hiroko, ARATANI Naoki, KAWAI Tsuyoshi, NAKASHIMA Takuya	15	English	Held in English in alternating years (Not offered in 2021)
	Photonics Special	L	4067	A	1	SASAGAWA Kiyotaka	MS	—	SASAGAWA Kiyotaka, YANAGIDA Takayuki, KAWAGUCHI Noriaki	15		Held in Japanese
	Photonics Special	L	4067	B	1	SASAGAWA Kiyotaka	MS	—	SASAGAWA Kiyotaka, YANAGIDA Takayuki, KAWAGUCHI Noriaki	15	English	Held in English in alternating years (Not offered in 2021)
	Materials Science for Quantum Information and Energy Conversion	L	4069	A	1	YANAGI Hisao	MS	—	YANAGI Hisao, KATSUKI Hiroyuki, NAKAMURA Masakazu, BENTEN Hiroaki	15		Held in Japanese
	Materials Science for Quantum Information and Energy Conversion	L	4069	B	1	YANAGI Hisao	MS	—	YANAGI Hisao, KATSUKI Hiroyuki, NAKAMURA Masakazu, BENTEN Hiroaki	15	English	Held in English in alternating years (Not offered in 2021)
	Organometallic Chemistry	L	4115	A	1	MATSUO Takashi	MS	—	ANDO Tsuyoshi, MATSUO Takashi, MORIMOTO Tsumoru	15		Held in Japanese
	Organometallic Chemistry	L	4115	B	1	MATSUO Takashi	MS	—	ANDO Tsuyoshi, MATSUO Takashi, MORIMOTO Tsumoru	15	English	Held in English in alternating years (Not offered in 2021)
	Polymer Chemistry	L	4073	A	1	AJIRO Hiroharu	MS	—	AJIRO Hiroharu, ANDO Tsuyoshi, YASUHARA Kazuma	15		Held in Japanese
	Polymer Chemistry	L	4073	B	1	AJIRO Hiroharu	MS	—	AJIRO Hiroharu, ANDO Tsuyoshi, YASUHARA Kazuma	15	English	Held in English in alternating years (Not offered in 2021)
	Materials Informatics	L	4074	A	1	FUJII Mikiya	MS	—	FUJII Mikiya, MIYAO Tomoyuki	15		Held in Japanese
	Materials Informatics	L	4074	B	1	FUJII Mikiya	MS	—	FUJII Mikiya, MIYAO Tomoyuki	15	English	Alternating Japanese/English classes (Offered in Japanese in 2021)
	Materials Science Special A	L	4076	—	1	Program Director	MS	—	(YUYAMA Kenichi)	15		
	Materials Science Special B	L	4077	—	1	Program Director	MS	—	(KIM Soo Hyeon), (KOSHIMIZU Masanori)	15		
	Materials Science Special C	L	4078	—	1	Program Director	MS	—	(Martin Vacha), (SUZUKI Mitsuharu), (SUGIMOTO Manabu)	15	English	
	Materials Science Special D	L	4079	—	1	Program Director	MS	—	(KUROKAWA Takayuki), (FUJII Shuji)	15		
	Project Practice	P	4083	—	1	—	—	—	Depends on Theme	—	Japanese/English	

Category	Subject name	Subject Type	Subject Number	Class Code	Number of Credit	Responsible person	Main	Sub	Faculty member in charge	Total Number of Classes	English Subject (primary language of subject)	Remarks
PBL Subjects	Information Science and Engineering PBL I	P	5001	-	1	Program Director	IS	-	NAKASHIMA Yasuhiko, INOUE Michiko, YASUMOTO Keichi, MATSUMOTO Kenichi, IIDA Hajimu, KADOBAYASHI Yuki, HAYASHI Yuichi, FUJIKAWA Kazutoshi, WATANABE Taro, NAKAMURA Satoshi, OKADA Minoru, KIYOKAWA Kiyoshi, KATO Hirokazu, MUKAIGAWA Yasuhiro, ARAMAKI Eiji, WADA Takahiro, SUGIMOTO Kenji, KASAHARA Shoji, IKEDA Kazushi, SATO Yoshinobu, KANAYA Shigehiko	-	Japanese/English	※ Responsible Faculty Member for PBL Subjects is the Program Director.
	Information Science and Engineering PBL II	P	5002	-	1	Program Director	IS	-	NAKASHIMA Yasuhiko, INOUE Michiko, YASUMOTO Keichi, MATSUMOTO Kenichi, IIDA Hajimu, KADOBAYASHI Yuki, HAYASHI Yuichi, FUJIKAWA Kazutoshi, WATANABE Taro, NAKAMURA Satoshi, OKADA Minoru, KIYOKAWA Kiyoshi, KATO Hirokazu, MUKAIGAWA Yasuhiro, ARAMAKI Eiji, WADA Takahiro, SUGIMOTO Kenji, KASAHARA Shoji, IKEDA Kazushi, SATO Yoshinobu, KANAYA Shigehiko	-	Japanese/English	
	Computational Biology PBL I	P	5003	-	1	Program Director	IS	BS	BESSHO Yasumasa, KANAYA Shigehiko, ONO Naoaki, MD.Altaf-Ul-Amin, (Sivasundaram Suharunan), (KAMINAO Minoru), (ISHIGURO Koichi)	-	Japanese/English	
	Computational Biology PBL II	P	5004	-	1	Program Director	IS	BS	BESSHO Yasumasa, KANAYA Shigehiko, ONO Naoaki, MD.Altaf-Ul-Amin, (Sivasundaram Suharunan), (KAMINAO Minoru), (ISHIGURO Koichi)	-	Japanese/English	
	Biological Sciences PBL I	P	5005	A	1	Program Director	BS	-	BESSHO Yasumasa, (KATO Kazuto), (FUSHKI Shinji), (SHINMYOU Atsuhiko), (YOKOTA Akiho), AKIYAMA Masahiro, NAKAJIMA Keiji	-	English	
	Biological Sciences PBL I	P	5005	B	1	Program Director	BS	-	BESSHO Yasumasa, (KATO Kazuto), (FUSHKI Shinji), (SHINMYOU Atsuhiko), (YOKOTA Akiho), AKIYAMA Masahiro, NAKAJIMA Keiji	-	English	
	Biological Sciences PBL II	P	5006	-	1	Program Director	BS	-	BESSHO Yasumasa, KATO Takehide, TSURU Akio, AKIYAMA Ryutarou, KOBAYASHI Kazuo, KITAGAWA Norihiro, AKIYAMA Masahiro, NAKAJIMA Keiji	-	Japanese/English	
	Bionanotechnology PBL I	P	5007	-	1	Program Director	BS	MS	SASAI Noriaki, TAKAGI Hiroshi, DEMURA Taku, NISHIMURA Akira, MOROZUMI Yuichi, KUNIEDA Tadashi, KAMIKUBO Hironari, YOSHIDA Shoosuke	-	Japanese/English	
	Bionanotechnology PBL II	P	5008	-	1	Program Director	MS	BS	HIROTA Shun, KAMIKUBO Hironari, AJIRO Hiroharu, MATSUI Takashi, ANDO Tsuyoshi, YASUHARA Kazuma, TOMA Sachiko, NAGAO Satoshi, YAMANAKA Masaru, YAMAZAKI Yoichi, YOSHIDA Hiroaki, Chanthaset Nalinthip	-	Japanese/English	
	Materials Science and Engineering PBL I	P	5009	-	1	Program Director	MS	-	URAOKA Yukiharu, OHTA Jun, NAKAMURA Masakazu, HOSOKAWA Yohichiroh, MATSUSHITA Tomohiro, YANAGI Hisao, YANAGIDA Takayuki, KAMIKUBO Hironari, KAWAI Tsuyoshi, HIROTA Shun, YAMADA Hiroko, Gwénaél Rapenne, AJIRO Hiroharu, New Professor, TAKAHASHI Masanari, KITAMURA Keishi, FUJII Mikiya, HONDA Takahiro, YOGO Katsunori	-	Japanese/English	
	Materials Science and Engineering PBL II	P	5010	-	1	Program Director	MS	-	FUJII Mikiya, KATSUKI Hiroyuki, KAWAGUCHI Noriaki, SASAGAWA Kiyotaka, HATTORI Ken, BENTEN Hiroaki, Yalikun Yaxiaer, UENUMA Mutsunori, KATO Takumi, KOBAYASHI Naoya, JUJO Takano, TAKEDA Sakura, HASHIMOTO Yusuke, HARUTA Makito, MIZUNO Hitoshi, YASUKUNI Ryohei, YAMASHITA Atsushi, ARATANI Naoki, ANDO Tsuyoshi, TOMA Sachiko, NAKASHIMA Takuya, MATSUI Takashi, MIYAO Tomoyuki, MORIMOTO Tsumoru, YASUHARA Kazuma, NISHINO Toshio, HAYASHI Hironobu, MATSUI Kyohei, YAMAZAKI Yoichi, YAMADA Mihoko, YAMANAKA Masaru, YOSHIDA Hiroaki, Bermundo Juan Paolo Soria, Chanthaset Nalinthip, Manish PANDEY, CHO Yongyoon	-	Japanese/English	
	Intelligent Cyber-Physical Systems PBL I	P	5011	-	1	Program Director	IS	MS	NAKASHIMA Yasuhiko, INOUE Michiko, YASUMOTO Keichi, MATSUMOTO Kenichi, IIDA Hajimu, KADOBAYASHI Yuki, HAYASHI Yuichi, FUJIKAWA Kazutoshi, OKADA Minoru, KIYOKAWA Kiyoshi, KATO Hirokazu, MUKAIGAWA Yasuhiro, WADA Takahiro, SUGIMOTO Kenji, KASAHARA Shoji, IKEDA Kazushi, KANAYA Shigehiko, MATSUBARA Takamitsu	-	Japanese/English	
	Intelligent Cyber-Physical Systems PBL II	P	5012	-	1	Program Director	MS	IS	URAOKA Yukiharu, OHTA Jun, SASAGAWA Kiyotaka, HARUTA Makito, UENUMA Mutsunori, Bermundo Juan Paolo Soria, MIZUNO Hitoshi	-	Japanese/English	
	Data Science PBL I	P	5013	-	1	Program Director	DSC (BS)	IS MS	NAKAMURA Satoshi, URAOKA Yukiharu, SAKUMURA Yuichi, SUDO Katsuhito, ONO Naoaki, MIYAO Tomoyuki, New Assistant Professor	15	Japanese/English	
Data Science PBL II	P	5014	-	1	Program Director	DSC (BS)	IS MS	NAKAMURA Satoshi, URAOKA Yukiharu, SAKUMURA Yuichi, SUDO Katsuhito, ONO Naoaki, MIYAO Tomoyuki, KOKAJI Toshiya	15	Japanese/English		
Research-based Subjects	Seminar I	-	6008	-	2	Primary Supervising Faculty Member	-	-	Primary Supervising Faculty Member	-	Japanese/English	
	Seminar II	-	6009	-	2	Primary Supervising Faculty Member	-	-	Primary Supervising Faculty Member	-	Japanese/English	
	Thesis Research	-	6010	-	6	Primary Supervising Faculty Member	-	-	Supervising Faculty Member	-	Japanese/English	
	Specialized Project Research	-	6011	-	6	Primary Supervising Faculty Member	-	-	Supervising Faculty Member	-	Japanese/English	
	Project Report	-	6012	-	4	Primary Supervising Faculty Member	-	-	Supervising Faculty Member	-	Japanese/English	

· For subject type, L represents lecture-type subjects, while P represents practical-type subjects.  
 · Names in parentheses under responsible/supervising staff indicate Adjunct Lecturers. Please refer to the Online Syllabus for details regarding schedules for intensive courses.



List of subjects and faculty members in charge for the Graduate School of Science and Technology in academic year 2021 (Doctral Course)

Category	Subject name	Sub ject Type	Subject Number	Class Code	Num ber of Credit	Responsible person	Main	Sub	Faculty member in charge	Total Num ber of Class es	English Subject (primary language of subject)	Remarks
Subjects for Research Skills	Advanced English A	L	7001	A	1	(Andrew Atkinson)	IEI (IS)	-	(Andrew Atkinson)	15	English	
	Advanced English A	L	7001	B	1	(Andrew Atkinson)	IEI (IS)	-	(Andrew Atkinson)	15	English	
	Advanced English B	L	7002	A	1	Paul McAleese	IEI (BS)	-	Paul McAleese	15	English	
	Advanced English B	L	7002	B	1	Paul McAleese	IEI (BS)	-	Paul McAleese	15	English	
	Advanced English B	L	7002	C	1	(David Sell)	IEI (IS)	-	(David Sell)	15	English	
	Advanced English C	L	7003	A	1	McDowell Leigh	IEI (MS)	-	McDowell Leigh	15	English	
	Advanced English C	L	7003	B	1	(NAKAYAMA Yukiko)	IEI (MS)	-	(NAKAYAMA Yukiko)	15	English	
	Advanced English C	L	7003	C	1	(Michael Barker)	IEI (IS)	-	(Michael Barker)	15	English	
	Advanced English D	L	7004	A	1	McDowell Leigh	IEI (MS)	-	McDowell Leigh	15	English	
	Advanced English D	L	7004	B	1	(NAKAYAMA Yukiko)	IEI (MS)	-	(NAKAYAMA Yukiko)	15	English	
	Advanced English E	L	7029	-	1	Paul McAleese	IEI (BS)	-	Paul McAleese	15	English	
	Overseas English Training I	P	7005	-	2	Paul McAleese / Supervisor	-	-	Paul McAleese / Supervisor	30	English	
	Overseas English Training II	P	7006	-	2	Paul McAleese / Supervisor	-	-	Paul McAleese / Supervisor	30	English	
	Overseas English Training III	P	7007	-	2	Paul McAleese / Supervisor	-	-	Paul McAleese / Supervisor	30	English	
	International Training I	P	7008	-	1	Supervisor	-	-	Supervisor	15	English	
	International Training II	P	7009	-	1	Supervisor	-	-	Supervisor	15	English	
	International Training III	P	7010	-	1	Supervisor	-	-	Supervisor	15	English	
	Study Abroad I	P	7011	-	2	Supervisor	-	-	Supervisor	30	English	
	Study Abroad II	P	7012	-	2	Supervisor	-	-	Supervisor	30	English	
	Study Abroad III	P	7013	-	2	Supervisor	-	-	Supervisor	30	English	
	Seminar for International Workshop Planning	P	7014	-	1	Supervisor	-	-	Supervisor	15	English	
	Project Management I	P	7015	-	1	Supervisor	-	-	Supervisor	15	English	
	Project Management II	P	7016	-	1	Supervisor	-	-	Supervisor	15	English	
	Project Management III	P	7017	-	1	Supervisor	-	-	Supervisor	15	English	
	Special Lectures in Informational Science and Engineering	L	7018	-	1	Program Director	IS	-	SHINAGAWA Seitaro, CHO Sung Gwi, HANADA Kenta, HIEIDA Chie, YADA Shuntaro, Duong Quang Thang, KOBAYASHI Taisuke, HUANG Ming, Tran Thi Hong	15	English	※ Responsible Faculty Member for Special Lectures is the Program Director.
	Special Lectures in Computational Biology	L	7019	-	1	Program Director	IS	BS	MATSUDA Yuki, Raula Galkovina Kula, TAKAHASHI Keichi, Kim Youngwoo, FUJIMOTO Yuichiro, ISOYAMA Naoya, FUKUSHIMA Makoto, FUJIMOTO Manato, Doudou Fall, TAKAGI Hiroshii, SAIJO Yusuke	15	English	
	Special Lectures in Biological Science	L	7020	-	1	SAIJO Yusuke	BS	-	SAIJO Yusuke, TAKAHASHI Naoki, SHIRAKAWA Makoto, SHIMIZU Takafumi, TORIYAMA Manami, NISHIMURA Tamako, TAKADA Hitomi, MUTO Ai	15	English	
	Special Lectures in Bionanotechnology	L	7021	-	1	Program Director	BS	MS	HIROTA Shun, KAMIKUBO Hironari, ANDO Tsuyoshi, AJIRO Hiroharu, HASHIMOTO Takashi, DEMURA Taku, UMEDA Masaaki	15	Japanese or English	
	Special Lectures in Materials Science	L	7022	-	1	Program Director	MS	-	(Visiting Lecturer)	15	Japanese or English	
	Special Lectures in Intelligent Cyber-Physical Systems	L	7023	-	1	Program Director	MS	IS	URAOKA Yukiharu, SHINAGAWA Seitaro, CHO Sung Gwi, HANADA Kenta, HIEIDA Chie, YADA Shuntaro, Duong Quang Thang, KOBAYASHI Taisuke, HUANG Ming, Tran Thi Hong	15	English	
	Special Lectures in Data Science	L	7024	-	1	Program Director	DSC (BS)	IS MS	NAKAMURA Satoshi, FUNATSU Kimito, URAOKA Yukiharu, SAKUMURA Yuichi, ONO Naoaki, SUDO Katsuhito, MIYAO Tomoyuki	15	English	
	Innovation Management A	L	7025	-	1	(KUBO Kozo)	IRI (IS)	-	(KUBO Kozo)	15	English	
	Innovation Management B	L	7026	-	1	(David Sell)	IS	-	(David Sell)	15	English	
Career Management A	L	7027	-	1	Supervisor	-	-	Supervisor, (External lecturer)	15	English		
Career Management B	L	7028	-	1	Supervisor	-	-	Supervisor, (External lecturer)	15	English		
Subjects for Independent Research Activities	Research Status Hearing	P	8001	-	1	Supervisor	-	-	Supervisor	-	Japanese/English	
	Doctoral Research I	P	8002	-	3	Supervisor	-	-	Supervisor	-	Japanese/English	
	Doctoral Research II	P	8003	-	3	Supervisor	-	-	Supervisor	-	Japanese/English	
	Doctoral Research III	P	8004	-	3	Supervisor	-	-	Supervisor	-	Japanese/English	
	Doctoral Research IV	P	8005	-	3	Supervisor	-	-	Supervisor	-	Japanese/English	
	Doctoral Research V	P	8006	-	3	Supervisor	-	-	Supervisor	-	Japanese/English	
	Doctoral Research VI	P	8007	-	3	Supervisor	-	-	Supervisor	-	Japanese/English	

· For subject type, L represents lecture-type subjects, while P represents practical-type subjects.

· Names in parentheses under responsible/supervising staff indicate Adjunct Lecturers. Please refer to the Online Syllabus for details regarding schedules for intensive courses.

## 6 – 2. Numbering information

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Subject numbers consist of 4-digit numbers based on levels of courses.

[How to read the subject numbers]

First digit : The first digit in the 4-digit numbers indicates levels of subjects:

- 1XXX = General Subjects (For master's course)
- 2XXX = Introduction Subjects (For master's course)
- 3XXX = Basic Subjects (For master's course)
- 4XXX = Specialized Subjects (For master's course)
- 5XXX = PBL Subjects (For master's course)
- 6XXX = Research-based Subjects (For master's course)
- 7XXX = Courses for research skills (For doctoral course)
- 8XXX = Courses for independent research abilities (For doctoral course)

From second to fourth digits : The from second to fourth digits in the 4-digit numbers indicate serial

XXXX = Serial numbers (ranging from 01 to 99)

Depending on course subjects there are classifications. The class code is displayed in the list of subjects and faculty members in charge.

## 6 – 3. 2021 Timetable

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Check the 2021 Timetable at:

<https://syllabus.naist.jp/>

7 Degree examination criteria, etc.

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## 7 Degree examination criteria, etc.

### 7 – 1 . Degree examination criteria

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<Master's course>

#### Master's thesis examination criteria

For master's theses, examination as an academic paper in a specialized research field shall be performed based on the following areas, upon emphasizing novelty and applicability.

Specifically, each screening committee member will evaluate master's theses considering these areas, and theses shall be deemed as passing the examination if evaluation meets the established criteria.

1. The research background and purpose are sufficiently explained.
2. The research procedures and methods are thoroughly developed.
3. The experimental data, theoretical calculation results and research results are carefully organized and analyzed accordingly.
4. The development of conclusions and new theories based on achieved data are logically and fully explained.
5. The thesis is written using the proper academic writing methodology.
6. Research ethical issues are properly handled.

#### Specialized project research examination criteria

For specialized project research, examination as an academic paper in a specialized research field shall be performed based on the following areas, upon consideration of novelty and emphasizing applicability.

Specifically, each screening committee member will evaluate specialized project research considering these areas, and specialized project research shall be deemed as passing the examination if evaluation meets the established criteria.

1. The research background and objectives are sufficiently explained.
2. The references are comprehensive, and their quality is thoroughly discussed.
3. There is thorough examination of the student's experimental data and theoretical calculations and of those from the cited references.
4. The conclusions are based on logical reasoning or a new hypothesis is logically developed.
5. The thesis is written using the proper academic writing methodology.
6. The thesis uses the proper reference methodology and appropriately addresses research ethics issues.

#### Project report examination criteria

For project reports, examination as an academic paper in a specialized research field shall be performed based on the following areas, upon emphasizing applicability.

Specifically, each screening committee member will evaluate project reports considering these areas, and project reports shall be deemed as passing the examination if evaluation meets the established criteria.

1. The research background and objectives are sufficiently explained.
2. The references are comprehensive, and the data they introduce is thoroughly discussed.
3. There is thorough examination of the experimental data and the results of theoretical calculations from the cited references.
4. There is sufficient explanation of broad perspectives and future directions based on the accumulated information.
5. The thesis is written using the proper academic writing methodology.
6. The thesis uses the proper reference methodology and appropriately addresses research ethics issues.

<Doctoral course>

### Doctoral thesis examination criteria

For doctoral theses, examination as an academic paper in a specialized research field with novelty and applicability shall be performed based on the following areas.

A principal part of the doctoral thesis being published or scheduled to be published by the candidate in a peer-reviewed scientific journal or as a book or at an international conference with a peer review system, etc. is prerequisite for thesis examination.

Specifically, each screening committee member will evaluate doctoral theses considering these areas, and theses shall be deemed as passing the examination if evaluation meets the established criteria.

1. The research background and purpose are sufficiently explained.
2. The research procedures and methods are thoroughly developed.
3. The experimental data, theoretical calculation results and research results are carefully organized and analyzed accordingly.
4. The development of conclusions and new theories based on achieved data are logically and fully explained.
5. The thesis is written using the proper academic writing methodology.
6. Research ethical issues are properly handled.

### ○Milestones and capstones for progressive degree achievement

At NAIST, in order to promote a smooth path towards obtaining degrees, capstones and milestones for both the master's and doctoral programs have been established to facilitate progression. This system will be in place for students entering NAIST from the 2018 academic year. The following is a guideline example for milestone/capstone timing for students entering NAIST in April and graduating within the standard period of study.

#### <Master's course>

- Milestone: (A mid-term report) by November of the 2<sup>nd</sup> year
- Capstone: (Master's thesis examination) in February of the 2<sup>nd</sup> year

#### <Doctoral course>

- Milestone: (A mid-term report) by November of the 1<sup>st</sup> year
- Milestone: (A mid-term report) by November of the 2<sup>nd</sup> year
- Milestone: (A mid-term report) by November of the 3<sup>rd</sup> year
- Capstone: (Doctoral thesis examination) in February of the 3<sup>rd</sup> year

※For the master's course, milestone evaluation is performed every year from the 2<sup>nd</sup> year

A rubric which indicates milestones and capstones can be found in the Research Guidance System.

In proceeding with your individual research, this rubric may be regularly referred to determine what is necessary to pursue even higher quality research and may also be helpful in writing and revising your thesis.

[https://ad-info.naist.jp/gakusei/gakumu\\_kankei/EduSys/main.html](https://ad-info.naist.jp/gakusei/gakumu_kankei/EduSys/main.html)

**7 – 2 . Degree Regulations****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 (Regulations No. 1, 2004).

**Article 2 (Degree types and majors)**

1. Degrees conferred by NAIST shall be master’s degrees and doctoral degrees.
2. Science, engineering or biological sciences shall be specified in the degree certificate as the name of the area of studies.

**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 Graduate School of Science and Technology and take the master’s thesis 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 Graduate School of Science and Technology and take the doctoral thesis examination.
4. To receive a doctoral degree pursuant to the provision of Article 3-3, 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 Graduate School of science and Technology.
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 (Thesis examination and Examination of Academic Ability)

1. The master's and doctoral thesis examinations 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 Council shall have a Screening Committee for evaluating theses, and conducting the master's and doctoral thesis examinations and the Examination of Academic Ability.
2. Each Screening Committee shall consist of at least three faculty members of the Graduate School of Science and Technology and the shared educational and research institutions. In this case the Committee members shall include at least two professors, or one professor and one Associate Professor recognized by the Faculty Council.
3. Each of the Screening Committees shall have a chief referee.
4. Faculty members of 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 circumstances, subject to deliberation by the Faculty Council.

#### Article 8 (Notification of results)

1. The Screening Committee involved in conferral of master's degrees shall notify the Faculty Council 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 master's thesis examination.
2. The Screening Committee involved in conferral of doctoral degrees shall notify the Faculty Council of its decision as to whether to confer a doctoral degree or not in writing, immediately after completion of the evaluation of thesis and doctoral thesis examination or the Examination of Academic Ability. In this case, the relevant document shall be submitted from the following documents:
  - (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 doctoral thesis 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 doctoral thesis examination and the Examination of Academic Ability

#### Article 9 (Deliberation of degree conferral)

The Faculty Council 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 Graduate School of Science and Technology 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.

#### 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.

(Effective date)

1. These Regulations shall come into effect on April 1, 2018.

(Transitional measures)

2. Those students who entered NAIST in or before the 2017 school year, excluding the regulations of 7-2 and notwithstanding the revised provisions, shall be governed by the previous stipulations.

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

本学大学院先端科学技術研究科先端科学技術専攻の博士前期課程（〇〇プログラム）を修了したので修士（〇〇）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  
Master of (専攻分野の名称)  
upon

( 氏 \_\_\_\_\_ 名 )  
(Surname) (Givenname)

\_\_\_\_\_  
(Date of Birth)

for having successfully completed the Master's  
Course (Program of 〇〇) in the Graduate School of  
Science and Technology

Date of Issue: (発行日)

Official Seal of the Institute President's Seal

(学長署名)  
(学長名)  
President,

Master's No. : (番号) Nara Institute of Science and Technology

(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

本学大学院先端科学技術研究科先端科学技術専攻の博士後期課程を修了したので博士（〇〇）の学位を授与する

論文題目 ○○○○○○○○○○○○○○○○○○○  
○○○○○○○○○○○○○○○○○○

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) (Givenname)

\_\_\_\_\_  
(Date of Birth)

for having successfully completed the Doctoral Course  
in the Graduate School of Science and Technology

Thesis Title : (論文題目)

Date of Issue: (発行日)

Official Seal of the Institute President's Seal

(学長署名)  
(学長名)  
President,

Doctorate No. : (番号) Nara Institute of Science and Technology

(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
<p style="text-align: center;">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(〇〇)の学位を授与する</p>
<p>論文題目 ○○○○○○○○○○○○○○○○○</p> <p>○○○○○○○○○○○○○○○○</p>
<p>平成 年 月 日</p>
<p>奈良先端科学技術大学院大学長</p>
<p style="text-align: center;">学長名</p> <p style="text-align: center;">大学の印                      学長の印</p>

<p>NARA INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
<p>Hereby confers the degree of Doctor of (専攻分野の名称) upon</p>
<p>( 氏                      名 )</p> <p>(Surname)              (Givenname)</p>
<p>_____</p> <p>(Date of Birth)</p>
<p>for having submitted a Doctoral Dissertation and having passed the Prescribed Evaluations</p>
<p>Thesis Title : (論文題目)</p>
<p>Date of Issue:(発行日)</p>
<p>Official Seal of the Institute President's Seal</p>
<p>(学長署名) (学長名) President,</p>
<p>Doctorate No. : (番号) Nara Institute of Science and Technology</p>

(Note 1) The sheet is A4-sized.

(Note 1) The sheet is A4-sized.

### 7 – 3. Schedule until degree conferral

Degree conferral is performed every 3 months. (March, June, September and December) The rough schedule until degree conferral below is for April entrance and March graduation within the standard study period for each program.

#### <Master's course>

Late December	Submission of Thesis Review Request and Thesis Abstract →Submit these to the graduate school Dean (Secretariat Office of division of your laboratory) by the submission deadline. Fill in the type of degree (science, engineering, or biological sciences) you prefer on the request form.
Mid-January	Faculty Council (Thesis title, screening committee member approval)
Mid-February to late February	Master's thesis presentation (Thesis review and examination) →Committee members confirm the capstone and follow thesis examination criteria for evaluation. Results reported to the Faculty Council.
Late February or early March	Faculty Council (Examination report, deliberation, ruling: completion approval) →Confirmation of completion requirements (Graduation credits, passing of thesis examination, passing of examination of academic ability) and approval of completion

#### <Doctoral course>

Early December	Submission of Thesis Review Request, List of Publications, Thesis Abstract and Curriculum Vitae →Submit these to the graduate school Dean (Secretariat Office of division of your laboratory) by the submission deadline. Fill in the type of degree (science, engineering, or biological sciences) you prefer on the request form.
Mid-December to mid-January	Faculty Council (Thesis title, Screening committee member approval)
Mid-December to mid-February	Public hearing (Pre-examination) →Committee members confirm the capstone and follow thesis examination criteria for evaluation. Thesis (final version) guidance is given when necessary. If there are opinions related to evaluation, committee members will consider them. Passing students proceed to thesis examination. Corrections are made to the public hearing version to complete the final thesis version.
Upon passing the pre-examination	Thesis examination →Committee members follow thesis examination criteria for final thesis version examination. Students participate when necessary. Results are reported to the Faculty Council.
Late-February or early March	Faculty Council (Examination report, deliberation, ruling: completion approval) →Confirmation of completion requirements (Graduation credits, passing of thesis examination, passing of examination of academic ability) and approval of completion



## 8 Study Support





## 8 Study Support

### **8 – 1. Health Care Center (㊸ on the campus map)**

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To maintain the physical and mental health of our faculty, staff and students, the Health Care Center provides health examinations, daily treatment, and lifestyle guidance and health education. These three aspects of health promotion, namely checkups, treatment, and prevention, are addressed at the Health Care Center on the 2nd floor of the University Union building. The Center has an examination room, a chat and health counseling room, and a recovery room in a functional layout. A medical doctor and a nurse are regularly on duty.

Director of Health Care Center: Hidetaka Hogaku

Health Care Center Nurse: Kinuyo Nishiyama

**Hours: 9:30 – 13:30, 14:30 – 16:30, Monday - Friday (excluding year-end/New Year and national holidays)**

The Health Administration Center notifies members of necessary information such as schedule of health examinations by e-mail. In addition, the annual HCC NEWS (Health Care Center News) provides a variety of useful information.

[http://www.naist.jp/en/about\\_naist/offices/health\\_care\\_center/index.html](http://www.naist.jp/en/about_naist/offices/health_care_center/index.html)

### **8 – 2. Office for Students with Disabilities**

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The Office for Students with Disabilities has been established in order to offer support for students with disabilities to have independent student lives at NAIST. The office staff have specialized training and knowledge about disabilities and counseling, and works in cooperation with related NAIST departments, faculty and staff to provide support to students with disabilities and serve as a student counselor.(academic and mental)

<http://www.naist.jp/campuslife/information/supportoffice.html>

### **8 – 3. Career Services Office**

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The Career Services Office aims to support students in their career development. It is located on the first floor of the Administrative Office building (next to the Educational Affairs Division) and the career development counselors are available to provide various career development support.

**1. Hours:** 8:30-17:30 (Closed between 12:00 and 13:00) (Closed on weekends and university holidays)

**2. Career counselling**

We provide advice on concerns and anxiety related to your career vision, job hunting, entry sheet writing and interview preparation. Career development counselors of NAIST and career advisors from public organizations are available for counselling. Counselling services are available by appointment only and reservation instructions can be found on the Career Services Office website. Confidentiality will be strictly observed.

**3. Career guidance**

We hold career guidance seminars to support students in their career development and job hunting. Seminars, including the dates, are available on the Career Services Office website or via e-mails.

**4. Lending service for materials related to job hunting**

You can borrow materials that are useful for job hunting in Japan and career development at the Career Services Office. The rules for borrowing materials are also on the Career Services Office website.

**5. Contact**

Extension: 5921/5922/6239 E-mail: [career@ad.naist.jp](mailto:career@ad.naist.jp) (Please add "@" instead of <a> to

complete Email address.)

URL: <https://www.naist.jp/career/>

#### **8 – 4. Information iniTiative Center (ITC) (㊦ on the campus map)**

ITC manages and operates the 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 called "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 configurations to meet user needs and build an advanced environment.

Meanwhile, an information processing environment has been developed from the researchers viewpoint, based on the basic principle of "fulfillment without excess or deficiency" represented by the idea Mandara.

#### ○How to use the Mandara System

For information about major services, please see the following URLs.

- Mail  
<http://itcw3.naist.jp/ITC-local/Mail/mailenv.en.html>
- Wireless LAN  
<http://itcw3.naist.jp/ITC-local/wireless/index.en.html>
- Campus Licensed Software  
<http://itcw3.naist.jp/ITC-local/campuslicense/index.en.html>
- Printer (Multi-function Printer)  
<http://itcw3.naist.jp/ITC-local/manual/printer/printer.en.html>
- High Performance Computer Server  
<http://trac.naist.jp/trac/h29grid/>

For information about other services and inquiries, please refer to the upper tabs of the following URL.

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

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](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](http://itcw3.naist.jp/ITC-local/policy/mandara_operation_policy.en.pdf)
- Password  
<http://itcw3.naist.jp/ITC-local/password/good-passwd.en.html>
- Computer Security on Mandara  
<http://itcw3.naist.jp/ITC-local/policy/security/index.en.html>

**Keep your computer secure in order to use the network properly.**

- Use of P2P Software

<http://itcw3.naist.jp/ITC-local/policy/p2p/p2p-request.en.html>

**Use of P2P file-sharing software in NAIST is prohibited.**



## 9 Campus Life

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## 9 Campus Life

### 9 – 1. Tuition and payment

#### ○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 (Thursday), 2021 Fall semester (October to March): Due November 29 (Monday), 2021

\*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.)

#### ○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 23 (Friday), 2021. 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 Accounting Section of the Finance Division.

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

### 9 – 2. 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.

**9 – 3. 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	<ul style="list-style-type: none"> <li>• Your address and telephone number (fixed and/or mobile) where you can be reached after enrollment in NAIST</li> <li>• Information about your place of work (if you are a working student)</li> <li>• Name of a contact person in case of emergency, person’s relationship with you, and his/her address and telephone number</li> </ul>
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**9 – 4. Procedures and issuance of certificates**

○Procedures

Of the procedures below, some are to be completed when you are notified by NAIST by bulletin board notices, etc. within a specified period and some are to be completed individually when required. Please note that you may be subject to inconveniences or disadvantages if you fail to complete these procedures when requested or required.

Document to submit	When to submit	Contact office
Leave of absence request form (Kyugaku Negai)	When taking a leave of absence for 3 months or longer (Includes private study abroad. Attach medical certificate if for illness.)	Academic Affairs Section, Educational Affairs Division
Return from leave request form (Fukugaku Negai)	When returning to NAIST before the leave of absence period is over (Attach medical certificate if leave is for illness.)	
Withdrawal request form (Taigaku Negai)	When withdrawing from NAIST	
Change of name form	When changing your name *Submit documents to prove the change.	
Student ID card reissue request form	When you lose your student ID card or it has become unusable due to damage, etc.	



Overseas travel notification	When traveling overseas for less than 3 months (except when it is part of your coursework at NAIST)	Education Planning Section, Educational Affairs Division
Study abroad request form	When studying abroad	Academic Affairs Section, Educational Affairs Division
Post graduation report	When you graduate or leave school	Career Services Office
Forms to be submitted to the Educational Affairs Division are available at its counter and also can be downloaded from the intranet page for NAIST students at: <a href="https://ad-info.naist.jp/gakusei/shinsei.html">https://ad-info.naist.jp/gakusei/shinsei.html</a>		

### ○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 duration of a leave of absence is up to 1 year, however, you may apply for one extension of this period for 1 year at the longest, if you have special reasons. To apply for an extension, you are required to submit the leave of absence (extension) request form again, at least two weeks prior to the expiration of the initial leave of absence period.
- The leave of absence period does not count toward the standard period of study or 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 leaves of absence.
- You cannot use the NAIST Library during leaves of absence.
- You do not have to pay tuition fees for the leave of absence period.
- If you take a leave of absence mid- semester due to unavoidable reasons, you will be required to submit a leave of absence request form and a request for refund of tuition fees form.
- If you wish to return to NAIST before the end of your leave of absence, please submit a return from leave request form (Fukugaku Negai)".  
(If the leave of absence is due to illness, please submit a medical documentation as well.)
- Tuition fees are charged from the month following the end of the leave of absence.
- Please consult with the Health Care Center if you have not had a health examination due to the leave of absence.
- Students applying for tuition exemption should contact the Student Support Section.

#### (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.

- Please return your student ID card.
- Those living in a student dormitory need complete the necessary moving-out procedures.
- For those receiving a scholarship, please complete the required adjustment procedures.
- Students applying for tuition exemption should contact the Student Support Section.
- Please note that if an application for withdrawal is not submitted (or approved), you will be treated as enrolled and will be required to pay tuition.

(3) General information for both of the above

- Permission for leaves of absence or withdrawal is conditional on payment of tuition fees.
- 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 leave of absence period will be reimbursed.
  - If the combined tuition fees for spring and autumn semesters are paid in April, and withdrawal is permitted before the autumn semester begins, that semester's tuition fee will be reimbursed.
- The deadline for submitting request forms is 2 weeks prior to the date you wish to take leave of absence or withdraw (If tuition fees have not yet been paid, the deadline is 3 weeks prior). If the form is not submitted by the deadline, the permission date 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: In principle, the period is to be from April or October and end at the end of September or March respectively.
  - Withdrawal: In principle, the date of withdrawal is to be the end of September or March.
- Explain the reason for the leave of absence or withdrawal in the form in detail; "For personal reasons" cannot be accepted. If it is due to employment, include your employer's name.
- You will need to move out of the student dormitory and complete the procedures to stop scholarship payment. Please contact the Student Support Section for details
- If you have not had a health examination due to a leave of absence, in principle, you will need to have the examination, so please consult with the Health Care Center soon after you return from leave of absence.
- Please keep track of your registration status individually. Please contact the Student Support Section if you have any questions or concerns.

○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
Certificate of expected completion (Japanese/	Students should have been enrolled in the master's course for at least six	

English)	months or be in the second year in the doctoral course to apply for this certificate.	(excluding national holidays and year-end holidays)
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.	Please apply for certificates in advance, as the machine may not be working outside of normal office hours  Location: Entrance lobby of NAIST Library
Certificate of academic record (Japanese/ English)	The certificate of academic record is an official certificate issued that does not include failed subjects.	
Academic record (Japanese/ English)	The academic record is issued for students to check their academic performance including failed subjects.	
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)	<ul style="list-style-type: none"> <li>• Up to 20 certificates are issued per student annually.</li> <li>• The certificate is valid for three months.</li> </ul> (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 Student Support Section of the Educational Affairs Division using the prescribed application form. You should apply well in advance, as some certificates take time to issue.

### **9 – 5. Commuter certificate**

○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 Takano-hara Station on the Kyoto Line, Gakuen-mae Station on the Nara Line, and Gakken-Kita-Ikoma Station on the Keihanna Line.

○ 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.

**9 – 6 . Scholarships of private organizations**

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

**9 – 7 . Tuition fee exemption**

NAIST offers a tuition fee exemption 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 natural disasters 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.

**9 – 8 . Personal Accident Insurance for Students Pursuing Education and Research (PAS) (“Gakkensai”)**

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 on campus, or traveling to and from university or off-campus facilities for research/educational purposes. 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(*1)	Insurance period (*2)
Master’s course	1,750 yen	2 years
Doctoral course	2,600 yen	3 years

\*1 : TypeA, Additional coverage for commuting accidents

\*2 : Valid until March 31 in expected year of graduation for students admitted in April and until September 30 in expected year of graduation for students admitted in October.

**9 – 9 . Liability Insurance coupled with “Gakkensai” (“Futaibaiseki”)**

All students are also required to take out the Liability Insurance coupled with “Gakkensai”. 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, extracurricular

Scholarships of private organizations • Tuition fee exemption • Personal Accident Insurance for Students Pursuing Education and Research (PAS) (“Gakkensai”) • Liability Insurance coupled with “Gakkensai” (“Futaibaiseki”)

activities or traveling to and from university facilities, both on- and off-campus. For more details about “Futaibaiseki”, please refer to the booklet.

Course	Insurance premium(*1)	Insurance period (*2)
Master’s course	680 yen	2 years
Doctoral course	1,020 yen	3 years
Amount of coverage : Up to 100 million yen per incident		

\*1 : Course A (“Gakkenbai”)

\*2 : Valid until March 31 in expected year of graduation for students admitted in April and until September 30 in expected year of graduation for students admitted in October.

### 9 – 10. Student dormitories (⑭ on the campus map)

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

[Outline of student dormitories] \*Resident acceptance will start in April 2021.

Type	Single-person occupancy	Share*	Couple occupancy	Family occupancy
Structure	Five-story reinforced concrete building	Five-story reinforced concrete building	Five-story reinforced concrete building	Five-story reinforced concrete building
No. of residential units	559	90	50	10
Floor area	13 m <sup>2</sup>	9-10 m <sup>2</sup>	36.98 – 41.45 m <sup>2</sup>	51.56 m <sup>2</sup>
Fixtures	Desk, bed, mini kitchen, toilet, etc.	Desk, bed, air conditioner, 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.	Kitchen, toilet, bath, laundry machine, air conditioner, etc.	-----	-----
Dormitory fee	5,900 yen/month	4,800 yen/month	11,900 yen/month	14,200 yen/month
Common service charge	4,100 yen/month	5,200 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	To be paid by the occupant
Internet charge	free	free	free	free

### 9 – 11. Housing 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.

**9 – 12. Parking a car and bicycle**

## ○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 Science Town, 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 Science Town. 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

## ○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 Science Town, 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.

**9 – 13. Student welfare facilities**

## ○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.

## ○Social venue for researchers: Guesthouse Sentan (Campus map6)

The guesthouse Sentan is a facility for faculty/staff and students as well as visiting researchers. For more details, please refer to the website of NAIST.

[http://www.naist.jp/en/campuslife/recreational\\_facilities/sentan.html](http://www.naist.jp/en/campuslife/recreational_facilities/sentan.html)

[Accommodation] Reservations: Welfare Section of Personnel Division

[Assembly Hall] Reservations: Welfare Section of Personnel Division

[Fitness Room] No reservation needed to use the fitness room.

## ○Sports facilities

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

Facilities	Open hours	Selection by drawing
Athletic field	8:00 am to sunset	Successful applicants are selected by ballot, which is held on the 20 <sup>th</sup> 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	8:00 am to 10:00 pm	
Tennis court	weekdays 8:00 am to sunset weekends,holidays 7:00 am to sunset	
Tennis court (with lighting)	weekdays 8:00 am to 9:00 pm weekends,holidays 7:00am 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.

### **9 – 14. Open consultation for students, Our various counseling service systems**

#### ○Open consultation for students

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, the Educational Affairs Division, and the International 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>

#### ○Consulting issues related to harassment

Harassment is behavior which violates a person's human rights by unwanted verbal and/or physical conduct that hurts the person's sense of self. There are primarily five types of harassment:

Sexual Harassment	Academic Harassment	Power Harassment	
Harassment related to leave due to pregnancy, birth and child-care, etc.			Moral Harassment

In our University, we have harassment consultants to deal with complaints and consultation needs related to harassment. If you have any complaints or issues, feel free to contact a consultant by phone or e-mail. For more details regarding harassment consultants etc., please refer to the University's homepage.

#### ○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. Check the course syllabus at:

<https://syllabus.naist.jp/>

#### ○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.)

### **9 – 15. Other matters**

#### ○Counter hours of the Educational Affairs Division

8:30 – 17:30 (except 12:00 – 13:00) (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.

#### ○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.

○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) and job information.



## 9 – 16. Campus map



Campus map

- |  |   |
|--|---|
| ① Administration Bureau  | ⑪ Materials Science Complex / Research and Education Center for Materials Science |
| ② Library  | ⑫ Bio Nano Process Laboratory   |
| ③ University Union / Health Care Center  | ⑬ Interdisciplinary Frontier Research Complex No.1                                |
| ④ Interdisciplinary Frontier Research Complex No.2                                   | ⑭ Student Dormitories / Staff Residences  |
| ⑤ Millennium Hall  | ⑮ Green Lab   |
| ⑥ Guesthouse Santan  | ⑯ Main Entrance   |
| ⑦ Information Science Complex / Information Initiative Center                        | ⑰ Administration Bureau Annex   |
| ⑧ Biological Science Complex / Research and Education Center for Genetic Information |   |
| ⑨ Animal Experimentation Facility  |   |
| ⑩ Botanical Greenhouses  |   |





## 10 Regulations of Nara Institute of Science and Technology, etc

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In reference to the regulations of Nara Institute of Science and Technology, etc as of April, 2021:

A. The current regulations are those as of February, 2021

B. For more information see the NAIST homepage.

(<http://reiki.naist.jp/kiyaku/>)

C. 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

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- Supplementary Provisions

### 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 school and its department shall be established as shown in the following table.

Graduate School	Department
Graduate School of Science and Technology	Department of Science and Technology

## Article 6 (Objectives of the Graduate School)

The Graduate School promotes world-leading research in the core fields of advanced science and technology, information, biological, and materials science, and their interdisciplinary areas, and, while pursuing the development and fusion of this research and the exploration of new research fields, will aim to foster human resources with ‘aggressiveness, comprehensive skills and knowledge, integrative abilities, and a global outlook’ to undertake the solving of the problems facing society and our future, and the new developments in advanced science and technology, through the structured education based on NAIST’s research achievements.

## Article 7 (Faculty)

1. The Graduate School has an academic faculties.
2. Matters relating to the academic faculty shall be provided for separately.

## Article 8 (Courses and their purposes)

1. The Graduate School 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 8-2 (Education Programs)

1. The Doctoral Course and the Master’s Course have each of the following Education Programs:  
Information Science and Engineering  
Computational Biology  
Biological Science

Bionanotechnology

Materials Science and Engineering

Intelligent Cyber-Physical Systems

Data Science

2. Matters relating to the Education Programs shall be provided for separately.

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

Dean of the Graduate School

Division Directors

Deputy Directors of the Divisions

Director of Information Initiative Center (ITC)

Directors of collaborative educational and research facilities

Director of the Research and Education Center for Genetic Information

Director of the Research and Education Center for Materials Science

Director of the Data Science Center

Director of Health Care Center

Faculty members

General staff members

Other staff members

2. 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 (Dean of Graduate School)

The Dean shall be responsible for the operation of the Graduate School.

#### Article 16 (Division Directors)

Each Division Director shall be responsible for supporting the Dean of the Graduate School and the operation of the respective division.

#### Article 16-2 (Division Deputy Directors)

Each Division Deputy Director shall be responsible for supporting the Division Director.

#### 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)

Each Director 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. The Graduate School 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 agreements concluded by the Graduate School
  - (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. The Faculty Council shall consist of full-time and associate professors engaged in educational or research activities of the 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 the Graduate School shall serve as Chairperson of the 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 Division Deputy chosen in advance by the Dean shall act as the chairman in place of him or her.
  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.

#### Article 20-2 (Representative Council)

1. The Faculty Council shall have a Representative Council consisting of those chosen from members the Faculty Council, as designated by the Faculty Council
2. The Faculty Council may make resolutions using the Representative Council resolutions, as designated by the Faculty Council.

#### V. Admission Capacity and Enrollment Capacity

##### Article 21 (Admission and enrollment capacity)

The admission capacity and enrollment capacity of the 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 a 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 Subsection 1 (10) and Subsection 2 (6), hereof shall be stipulated separately.

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, 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 31-2 (Lengthened terms of study)

1. When students apply to pursue a course of study in a planned manner over a certain period that exceeds a standard term of study stipulated in the foregoing article (hereinafter referred to as "Long-term Course), due to circumstances such as employment, approval for the Long-term Course may be given by the President.
2. Necessary matters related to Long-term Courses shall be stipulated separately.

#### 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.

#### Article 32-2 (Reduced terms of study)

NAIST shall, in cases when credits received before entering NAIST (limited to those credits earned after successful entrance screening pursuant to the stipulations of Subsection 1, Article 102 of the School Education Law) are treated as course credits earned at NAIST and through the earning of these credits it is recognized that a part of the NAIST Master's Course curriculum has been completed, a period not exceeding one year of the term of study stipulated by NAIST may be treated as completed, considering the period required to earn these course credits, etc. However, even in this case, the student must study at NAIST for a period of at least one year for the Master's Course

### IX. Education at the Graduate School

#### Article 33 (Graduate school education)

Education at the Graduate School 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.

#### 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 NAIIST, 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. The Graduate School shall present to 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. The Graduate School shall, when assessing 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. NAIIST 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 Deleted

#### Article 38 (Studying in a graduate school outside of NAIST)

1. Contingent on prior consultation with the graduate school offering classes, students may take a course offered by a graduate school outside of NAIST if the Dean of the Graduate School deems it educationally beneficial to do so, subject to screening by the Faculty Council.
2. Course credits that students have earned pursuant to the foregoing Subsection shall be treated as credits earned at NAIST, provided that the number of such credits shall not exceed fifteen.
3. The number of credits that may be treated as credits earned pursuant to the stipulations of Subsection 1, when combined with the credits treated as earned pursuant to Subsection 2 of Article 38-2 and Subsection 2 of Article 39, shall not exceed twenty.
4. 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.
5. The provisions of the foregoing four 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.
6. 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. The number of credits that may be treated as credits earned at NAIST pursuant to the foregoing Subsection, when combined with the credits treated as earned pursuant to Subsections 2-5 of the foregoing Article, shall not exceed fifteen.
3. The number of credits that may be treated as credits earned at NAIST pursuant to the stipulations of Subsection 1, when combined with the credits treated as earned pursuant to Subsection 2 of the foregoing Article and Subsection 2 of the following Article, shall not exceed twenty.

#### Article 39 (Treatment of credits earned prior to admission to NAIST)

1. Credits that a student has earned at a 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 Graduate School deems it educationally beneficial to do so, subject to screening by the Faculty Council.
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 fifteen.
3. The number of credits that may be treated as credits earned at NAIST pursuant to the stipulations of Subsection 1, when combined with the credits treated as earned pursuant to Subsection 2 of Article 38 and Subsection 2 of the foregoing Article, shall not exceed twenty.
4. 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 graduate school or research institution, students may receive Research Guidance offered by the graduate school or research institution outside of NAIST as needed if the Dean of the Graduate School deems it educationally beneficial to do so, subject to screening by the Faculty Council. 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 the Graduate School, receive necessary Research Guidance, and pass the master's thesis evaluation and 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 evaluation if the Dean of the 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 evaluation and 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 a 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 evaluation and 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.

#### 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 School of NAIST are as shown in the following table.

Graduate School of Science and technology	Department of Science and Technology	Teaching qualifications	
		Junior high school qualifications	Science
		High school qualifications	Science Information

XI. Leave of Absence, Study Abroad, Readmission, Transfer from/to another School, 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.
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 to the Graduate School of NAIST may be permitted to do so by the President, subject to screening by the Faculty Council, 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 foregoing Subsection, the Dean of the 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, 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 foregoing Subsection, the Dean of the 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 a graduate school outside of NAIST shall obtain permission of the President in advance.
2. If transfer to a Graduate School outside of NAIST is permitted pursuant to the foregoing Subsection, it shall apply to cases in which students will enroll 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, or the United Nations University graduate program.

## Article 52 Deleted

## Article 53 (Withdrawal)

A NAIST student who wishes to withdraw from NAIST shall obtain permission of the President in advance.

## 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)

1. 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

2. The tuition fee to be collected from students whose participation in a Long-term Course has been approved (hereinafter referred to as “Long-term Course Student”) shall be the amount resulting from multiplying the annual tuition fee stipulated in the foregoing Subsection by the number of years of the appropriate standard period of study and then dividing it by the number of years of the period of study approved for the individual student (hereinafter referred to as “Long-term Course Period”; when this amount contains an amount of less than 10 Yen, the amount shall be rounded up to the nearest multiple of ten.), notwithstanding the foregoing stipulation. However, the amount of annual tuition fee to be collected from students who were approved for the Long-term Course after enrolling into NAIST (including those whose Long-term Course Period was approved for extension, as stipulated separately) shall be the amount resulting from dividing the amount achieved from multiplying the annual tuition fee in the foregoing section by the number of years of the appropriate standard period of study and subtracting the total amount previously paid for annual tuition fees, by the number of years of the Long-term Course period minus the number of years already enrolled at NAIST (For those whose Long-term Course Period was approved for extension, the original period enrolled at NAIST (If in the middle of the academic year, until that year has ended) hereinafter the same.) (When this amount contains an amount of less than 10 Yen, the amount shall be rounded up to the nearest multiple of ten.)

## 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 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 foregoing provisions of Subsections 1 and 2, 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.
6. When the Long-term Course Period is to be shortened, as separately stipulated, the amount of tuition to be collected at the time of approval for the shortening of the Long-term Course Period shall be the amount resulting from multiplying the annual tuition fee determined in accordance with Subsection 2 of Article 54 of these regulations by the number of years enrolled at NAIST (If in the middle of the academic year, until that year has ended) and then subtracting the total amount already paid for tuition.
7. When declining of the Long-term Course is to be approved, as separately stipulated, the amount of tuition resulting from multiplying the annual tuition fee stipulated in Subsection 1 of Article 54 by the number of years enrolled at NAIST and then subtracting the total amount of tuition fee already paid is to be collected at the time approval of declining the Long-term Course.

#### 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)

Those who fall under any of the following may be exempted from payment of all or part of the admission fee or allowed delayed payment thereof:

1. Those who have difficulties paying the admission fee for financial reasons and also are recognized as having outstanding academic ability, or are recognized as having other justifiable reasons
2. Those who are recognized as having outstanding academic ability and distinguished personal attributes
3. Others who are recognized by the President as requiring this

Article 63

Those who fall under any of the following may be exempted from payment of all or part of the tuition fee or allowed delayed payment thereof:

1. Those who have difficulties paying the tuition fee for financial reasons and also are recognized as having outstanding academic ability, or are recognized as having other justifiable reasons
2. Those who are recognized as having outstanding academic ability and distinguished personal attributes
3. Others who are recognized by the President as requiring this

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 foregoing provision of Article 57 Subsection 3 is to withdraw, transfer or be expelled 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 foregoing provision of Article 57-4 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 a graduate school outside of NAIIST, whether domestic or foreign, may be admitted to NAIIST as special auditing students to take a course at the Graduate School of NAIIST if deemed beneficial for educational purposes by the Dean of the Graduate School, subject to screening by the Faculty Council.
2. If admission is permitted pursuant to the foregoing Subsection, it 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, or the United Nations University graduate program.
3. 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 NAIIST, whether domestic or foreign, may be admitted to NAIIST as special research students to receive Research Guidance at the Graduate School of NAIIST if deemed beneficial for educational purposes by the Dean of the 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 NAIIST students but wish to study one or more elective subjects at the Graduate School of NAIIST may be admitted to NAIIST 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 NAIIST may be admitted to NAIIST 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 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 a university (including foreign universities) or technical college may be admitted to NAIST as undergraduate internship students to receive academic guidance in the graduate school of NAIST if deemed beneficial for educational purposes by the Dean of the 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.

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.

## Supplementary provision

(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 of these Regulations, 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 School)

4. Notwithstanding the provision of revised Article 46 Subsection 2 of these Regulations, 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

Supplementary provision

These Regulations shall come into effect on May 17, 2016

Supplementary provision

These Regulations shall come into effect on December 1, 2016

Supplementary provision

These Regulations shall come into effect on April 1, 2017

Supplementary provision

(Effective date)

1. These Regulations shall come into effect on April 1, 2018.

(Transitional measures concerning the Graduate Schools and Departments)

2. Notwithstanding the provision of revised Article 5 of these Regulations, the Graduate School of Information Science, Department of Information Science, Graduate School of Biological Sciences, Department of Biological Sciences, Graduate School of Materials Science, and the Department of Materials Science shall be maintained until the students enrolled in these departments as of March 31, 2018 (Current Students) are no longer enrolled.

(Enrollment capacity for 2018, 2019 school year)

3. Notwithstanding the provision of Article 21, the enrollment capacity for the 2018 and 2019 school years shall be as shown in the following table.

Fiscal Year	Graduate school	Department	Admission capacity		Enrollment capacity
			Master's Course	Doctoral Course	

2018	Science and Technology	Science and Technology	350	107	457
	Information Science	Information Science			215
	Biological Sciences	Biological Sciences			199
	Materials Science	Materials Science			150
2019	Science and Technology	Science and Technology	350	107	914
	Information Science	Information Science			40
	Biological Sciences	Biological Sciences			37
	Materials Science	Materials Science			30

(Transitional measures concerning Current Students)

4. The education of Current Students in the continuing Graduate Schools of Subsection 2 of this article, notwithstanding the provisions of these revised regulations, shall depend upon the previous regulations.

Supplementary provision

(Effective date)

1. These Regulations shall come into effect on April 1, 2019.

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

2. Notwithstanding the provision of revised Article 46 Subsection 2 of these Regulations, the types and subjects of teaching licenses attainable shall remain applicable to the students who are enrolled in NAIST as of March 31, 2019 (“Existing Students”) and also to the students who are readmitted or transferred to NAIST after April 1, 2019 if they are in the same grade as the Existing Students.

Supplementary provision

These Regulations shall come into effect on October 1, 2020

Schedule (supplementary to Article 21)

Graduate school	Department	Admission capacity		Enrollment capacity
		Master’s Course	Doctoral Course	
Science and Technology	Science and Technology	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 up to 15 students in each academic year.

2. The President shall determine maximum number of qualified students for the relevant academic year and notify the dean of this number.

### 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 (Selection of scholarship candidates)

1. The dean shall set the criteria for screening scholarship candidates (hereinafter referred to as “the screening criteria”), announce on campus the screening criteria and solicit applications for scholarship candidates.

2. The dean 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 8 (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) Dean
- (5) Each Division Director
- (6) Director, Planning and Academic Affairs Department

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 9 (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 10 (Commendation and presentation session)

The President shall commend qualified students, and shall host a presentation session by the qualified students.

#### Article 11 (Clerical work)

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

#### Article 12 (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.

These regulations shall come into effect on April 1, 2018.

These regulations shall come into effect on April 1, 2019.

These regulations shall come into effect on December 1, 2020 .

## Nara Institute of Science and Technology Student Discipline Regulations

December 15, 2009  
Regulations No. 5

### Article 1 (Purpose)

These regulations stipulate the necessary matters concerning the discipline and educational measures under Article 70 Clause 2 of the Nara Institute of Science and Technology Regulations (Regulations No. 1, 2004).

### Article 2 (Scope of application)

1. These provisions shall apply to students, non-degree students, and research students (hereinafter simply referred to as the “Students”) who are enrolled at Nara Institute of Science and Technology (hereinafter referred to as “NAIST”).
2. For those who are research assistants under Article 1 Clause 2 Item 8 of the Nara Institute of Science and Technology Employment Regulations for Education and Research Fixed-term Contract Employees (Regulations No. 1, 2005) or teaching assistants under Article 1 Clause 2 Item 9 of those provisions, in addition to these regulations, the stipulations of Article 34 through Article 36 of said regulations shall also apply in accordance with the type of illegal action.

### Article 3 (Illegal actions subject to discipline)

The illegal actions subject to discipline or educational measures (hereinafter referred to as “Discipline”) for the Students shall be as stated below.

- (1) Actions that violate NAIST’s rules and/or regulations
- (2) Actions that obstruct NAIST’s education or research activities

### Article 4 (Types of discipline)

The content of discipline shall be according to the stipulations of the relevant item below, in accordance with the type of discipline stated in the item.

- (1) Expulsion: The student shall be expelled, and re-admission shall not be allowed.
- (2) Suspension: The student shall not be allowed to come to NAIST for a fixed period of six months or an indefinite period.
- (3) Admonishment: The person shall be given a written warning and cautioned about future actions.

### Article 5 (Determination of Discipline)

1. When determining whether and what type of Discipline is necessary, comprehensive consideration shall be given to the matters stated below and then a decision shall be made.

- (1) The motive, attitude toward, and result of the illegal action
- (2) The deliberate intention or degree of negligence
- (3) The degree of damage, including the mental suffering of people affected
- (4) The effects on other Students and society
- (5) Whether the student has committed illegal actions in the past
- (6) The student’s attitude toward their studies, and his-her response after the illegal action

2. Determination of the type of discipline shall be according to the Examples of Disciplinary Action



Standards (appendix). Provided, however, that depending on the content of the individual case, there may also be cases that do not follow the Examples of Disciplinary Action Standards.

3. For illegal actions not listed in the Examples of Disciplinary Action Standards, it shall be possible to use the Examples of Disciplinary Action Standards for reference and then determine the discipline.

#### Article 6 (Reporting incidents)

In the event that an illegal action that may be subject to Discipline has occurred, the Dean of the graduate school to which the Student who conducted that illegal action belongs (hereinafter referred to as the “Dean of the Relevant Graduate School”) shall promptly ascertain the facts, take the necessary measures such as restoring matters to their original state, and make a report to the President.

#### Article 7 (Authorizing investigation and deliberation)

In the event that the President receives a report stipulated under Article 6 and recognizes that there was an illegal action that may be subject to discipline, he/she shall order the Executive Director in charge of education to investigate the facts and deliberate whether discipline is necessary and the type of discipline (hereinafter referred to as the “Investigation and Deliberation”).

#### Article 8 (Suspension)

1. In the event that the action by the Student who will be subject to the Investigation and Deliberation by the student discipline committee stipulated in Article 9 (hereinafter referred to as the “Student Subject to Investigation”) is clearly an illegal action that is subject to discipline, and it is certain that punishment of expulsion or suspension shall be issued, the President may order tentative suspension from NAIST before a decision is made under the provisions of Article 17.
2. A Student who has been ordered suspended from NAIST under the previous clause shall not be allowed to come to the Institute.
3. Said period of suspension from NAIST shall be included in the official suspension period.

#### Article 9 (Student discipline committee)

In order to conduct the Investigation and Deliberation stated in Article 7, the Executive Director in charge of education shall establish a student discipline committee (hereinafter referred to as the “Committee”).

#### Article 10 (Committee organization)

1. The Committee shall be comprised of the persons listed below.
  - (1) The Executive Director in charge of education
  - (2) The Director General
  - (3) The Dean or Vice Dean of each graduate school
  - (4) The Director of the Planning and Academic Affairs department
  - (5) Other persons the Executive Director in charge of education recognizes as necessary
2. The Committee shall have a chairperson, and the Executive Director in charge of education shall fill this position.
3. The Committee may not conduct proceedings unless at least two-thirds of the members are in attendance.

#### Article 11 (Non-member attendance)

The Committee may request attendance of persons it recognizes as necessary and ask their opinions.

#### Article 12 (Explanations)

When conducting an investigation of the facts, the Student Subject to Investigation shall be notified of the fact that an investigation will be conducted and shall be given the opportunity to offer an oral or written explanation. In such cases, in the event that, without a valid reason, that Student does not appear to offer an oral explanation or does not submit a written explanation, it shall be deemed that he or she has waived the right to offer an explanation.

#### Article 13 (Investigation and report of deliberation results)

The Executive Director in charge of education shall report the Committee's Investigation and Deliberation results to the President.

#### Article 14 (Dean notification)

The President shall report the results of the Investigation and Deliberation that were reported by the Executive Director in charge of education to the Dean of the Relevant Graduate School.

#### Article 15 (Relation to other agreements)

Notwithstanding the stipulations of Article 6 through Article 13, in the event that NAIST's other rules and regulations have stipulations concerning illegal action investigations, matters for these investigations of the respective illegal action shall be according to those stipulations.

#### Article 16 (Faculty Council deliberation)

1. The Dean of the Relevant Graduate School shall deliberate the results of the Committee's Investigation and Deliberation within the faculty council.
2. The Dean of the Relevant Graduate School shall report the Faculty Council's deliberation results to the President.

#### Article 17 (Decision of disciplinary action)

1. The President shall make the decision on whether and what type of discipline is necessary considering the report stated in the previous article by the Dean of the Relevant Graduate School.
2. When making the decision of the previous clause, in the event that the President recognizes it is necessary, he or she may order another Investigation and Deliberation. In such cases, the stipulations of Article 7 through Article 16 shall apply correspondingly.

#### Article 18 (Notification of disciplinary action)

1. In the event that a decision has been made to conduct disciplinary action under the provisions of Article 17, the President shall notify the Student Subject to Investigation, the Executive Director in charge of education, and the Dean of the Relevant Graduate School of the type of discipline and the reason for punishment.
2. Notification to the Student Subject to Investigation shall be made by issuing the relevant Student a notification of disciplinary action (appendix form no. 1). Provided, however, that when issuance is not possible, notification shall be made by another appropriate method.

#### Article 19 (Disciplinary action effectiveness)

Disciplinary action shall come into effect on the date the notification of disciplinary action is issued. Provided, however, that in unavoidable cases this shall not apply.

#### Article 20 (Cancellation of indefinite suspension)

1. In the event that it has been recognized that, for a Student on indefinite suspension, it is appropriate to cancel suspension after six months have passed since the date it went into effect, the Dean of the Relevant Graduate School shall have the matter deliberated by the Faculty Council and then report the results to the President and the Executive Director in charge of education.
2. The Executive Director in charge of education shall inform the President of his or her opinion concerning the appropriateness of cancelling suspension. In such cases, the Executive Director in charge of education shall consult the Committee.
3. The President may, in light of the report from the Dean of the Relevant Graduate School and the opinion from the Executive Director in charge of education, cancel the suspension.

#### Article 21 (Rescreening)

1. In the event that there is factual error, discovery of new facts, or other valid reasons, a Student who received disciplinary action may attach materials that will serve as proof and use the request for rescreening form (appendix form no. 2) to make a request to the President for rescreening.
2. In the event it is recognized that rescreening is necessary, the President may order another Investigation and Deliberation of the facts. In such cases, the provisions of Article 7 through 17 shall apply correspondingly.

#### Article 22 (Change of enrollment)

1. In the event that a Student Subject to Investigation has made a request to withdraw or take a leave of absence before a decision under the provisions of Article 17, it shall not be permitted.
2. In the event that a Student who is under suspension has made a request to take a leave of absence, it shall not be permitted.
3. In the event that a Student who is on a leave of absence will be disciplined with a suspension, the permission for that Student's leave of absence shall be rescinded.

#### Article 23 (Educational measures)

1. In the event that the President receives a report described in Article 6 and recognizes it is in response to an illegal action not suitable for discipline, or in the event that he or she decides not to conduct disciplinary action under the provisions of Article 17, when it is recognized as necessary he or she shall order the Dean of the Relevant Graduate School to take educational measures.
2. In the event that an order stipulated in the previous clause, the Dean of the Relevant Graduate School shall give the Student who conducted the relevant illegal action a written or oral warning as an educational measure.
3. The educational measure stipulated in the previous clause shall correspond to the types of educational measures listed in each of the items below, and shall follow the stipulations of the relevant item.
  - (1) Strong warning: A strong warning about the illegal action will be made in writing.
  - (2) Oral warning: A warning about the illegal action will be made orally.

#### Article 24 (Record of disciplinary action)

In the event that a disciplinary action has been decided under the provisions of Article 17 for a Student (excluding cases in which, as a result of rescreening under the provisions of Article 21, a decision was made that disciplinary action shall not be conducted), the content of the disciplinary action shall be recorded in the guidance record stipulated in Article 24 of the Regulations for Enforcing the School Education Act (Ministry of Education, Science, Sports and Culture Order No. 11, 1947). Provided, however, that the content of disciplinary action that was recorded in the guidance record shall not be included in certificates issued by NAIST.

Article 25 (Administrative duties)

Administrative duties related to discipline, etc. for the Students shall be the responsibility of the Educational Affairs Division of the Planning and Academic Affairs Division.

Supplementary provision

These Regulations shall come into effect on December 15, 2009.

Supplementary provision

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

Supplementary provision

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

Appendix (related to Article 5)

Examples of disciplinary action standards

Classification	Type of illegal action	Discipline standards
Criminal actions, etc.	Heinous criminal acts or attempted criminal acts such as murder, theft, rape, or arson	Expulsion
	Action that inflicts injury	Expulsion or suspension
	Drug-related criminal acts	Expulsion or suspension
	Criminal acts such as theft, shoplifting, fraud, or violent acts that do not injure other persons	Expulsion, suspension, or admonishment
	Groping or molestation acts (including voyeurism, surreptitious photography or videos, or other actions that are a nuisance to others)	Expulsion, suspension, or admonishment
	Stalking acts	Expulsion, suspension, or admonishment
	Malicious unauthorized use of a computer or network	Expulsion or suspension

	Unauthorized use of a computer or network	Suspension or admonishment
Traffic accidents	Causing a traffic accident involving death or bodily injury leaving serious permanent damage, and caused by malicious actions such as driving without a license, driving under the influence of alcohol, or reckless driving	Expulsion
	Causing a traffic accident involving bodily injury, and was caused by malicious actions such as driving without a license, driving under the influence of alcohol, or reckless driving	Expulsion or suspension
	Malicious violation of traffic laws, such as driving without a license, driving under the influence of alcohol, or reckless driving	Suspension or admonishment
	Causing a traffic accident involving death or bodily injury leaving serious permanent damage, and caused by negligent actions such as failing to look ahead carefully	Suspension
	Causing a traffic accident involving bodily injury, and was caused by negligent actions such as failing to look ahead carefully	Suspension or admonishment
Research activity	Fabricating, falsifying, or plagiarizing data or investigation results that are indicated in research results that were announced	Expulsion, suspension, or admonishment
Experiments	Dishonest or malicious actions such as vicariously taking an examination, etc. conducted by NAIST	Expulsion or suspension
	Dishonest actions such as cheating on examinations, etc. conducted by NAIST	Suspension
	Cases of not following warnings or instructions by a supervisor during an examination, etc. conducted by NAIST	Admonishment
Illegal actions at NAIST	Violent actions that significantly hinder NAIST's education, research, management, or operations	Expulsion, suspension, or admonishment
	Trespassing into a NAIST-managed building, or using or occupying it without authorization	Expulsion, suspension, or admonishment
	Breaking, defiling, or illegally rebuilding a NAIST-managed building or property	Suspension or admonishment
	Violent actions, intimidation, detention, or confinement of NAIST constituents	Expulsion, suspension, or admonishment
	Actions that considered to be sexual or academic harassment	Expulsion, suspension, or admonishment



# 奈良先端科学技術大学院大学 学歌

作曲：古川 聖

若々しく ♩ = 116

*mp*

かす がやま ずい うんなびき あけ ぼののそら のはるけさ  
とみ おがわ ることなくせせ らぎのひか りはながる  
いこ まやま ゆう こえみれば なに わづにつ ど うももふ

*mp*

ちの もりの さいら せんたんへ どく そうのせ いふう を おく  
さか りゆく みら いのそらへり えい えんのし りん を おしめ  
じょう ほうは ここ にあ つま り せん たんのえ いち を つな

*mp*

る なら せ なたん かがく ぎ じゅつ だいがく いん たか き り そ  
す なら せ なたん かがく ぎ じゅつ だいがく いん か が や く ち  
ぐ なら せ なたん かがく ぎ じゅつ だいがく いん あら た な じ

*mp*

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せいの きざ は し の ぼ る  
だいの きざ は し の ぼ る

## 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

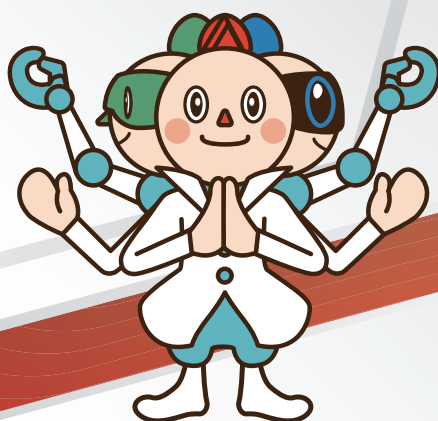
せせらぎの 光は流る  
盛りゆく 未来の蒼天へ  
永遠の 真理を示す  
奈良先端科学技術大学院  
輝く知性の階のぼる

### 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

無限の可能性、ここが最先端  
— Outgrow your limits —



奈良先端科学技術大学院大学