

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

April 1, 2004
Regulation No. 20

Article 1 (Purpose)

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

Article 2 (Research instructors)

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

Article 3 (Research guidance)

The details of research guidance shall be defined for each student.

Article 4 (Subjects and number of credits)

1. The subjects, number of credits, and registration procedures for the Master’s Course shall be as shown in Schedule 1.
2. The subjects, number of credits, and registration procedures for the Doctoral Course shall be as shown in Schedule 2.

Article 5 (Registration procedures)

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

Article 6 (Awarding of credits)

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

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

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

Article 7 (Approval of completion of research guidance)

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

Article 8 (Theme of the degree thesis)

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

Article 9 (Submission of the degree thesis)

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

Article 10 (Disqualification of credits for students who have been expelled due to unpaid tuition)

Credits accrued during the period of unpaid tuition will be disqualified when the student has been expelled from school, pursuant to Article 53-2-4 of Regulation.

Article 11 (Miscellaneous provision)

Other matters relating to registration by students shall be stipulated separately.

Supplementary provisions

(Effective date)

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

(Transitional measures)

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

Supplementary provisions

(Effective date)

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

(Transitional measures)

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

Supplementary provisions

(Effective date)

1. These Regulations shall come into effect on April 1, 2006.

(Transitional measures)

2. For students who were admitted in academic year 2005 or earlier (hereinafter referred to as “enrolled students”), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with

former subjects as set forth separately.

(an omission)

Supplementary provisions

(Effective date)

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

(Transitional measures)

2. For students who were admitted in academic year 2009 or earlier (hereinafter referred to as “enrolled students”), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions

(Effective date)

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

(Transitional measures)

2. For students who were admitted in academic year 2010 or earlier (hereinafter referred to as “enrolled students”), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions

Supplementary provisions

(Effective date)

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

(Transitional measures)

2. For students who were admitted in academic year 2011 or earlier (hereinafter referred to as “enrolled students”), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions

(Effective date)

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

(Transitional measures)

2. For students who were admitted in academic year 2012 or earlier (hereinafter referred to as “enrolled students”), the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision. In the event that enrolled students take subjects within the scope of these Regulations, such subjects shall be deemed to be replaced with former subjects as set forth separately.

Supplementary provisions

(Effective date)

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

(Transitional measures)

2. For students who were admitted in academic year 2013 or earlier (hereinafter referred to as “enrolled students”) with regard to subjects, number of credits, and registration, the former Registration Regulations for

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

Supplementary provisions

(Effective date)

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

(Transitional measures)

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

Supplementary provisions

(Effective date)

1. These Regulations shall come into effect on April 21, 2015 and be applicable from April 1, 2015.

(Transitional measures)

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

Supplementary provisions

(Effective date)

1. These Regulations shall come into effect on April 1, 2016.

(Transitional measures)

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

Supplementary provisions

(Effective date)

1. These Regulations shall come into effect on April 1, 2017.

(Transitional measures)

2. For students who were admitted in academic year 2016 or earlier (hereinafter referred to as “enrolled students”) with regard to subjects, number of credits, and registration, the former Registration Regulations for the Graduate School of Information Science at the Nara Institute of Science and Technology shall supersede these Regulations after revision notwithstanding the provisions of appended Schedule 1. 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.

Curriculum table of the Graduate School of Information Science

(1) Subjects(Master's Course)

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

Specialized Subjects in Information Science	Information Security & Our Society	130043	2	○	
	Data Mining	130044	1	○	
	Mobile Computing	130045	1	○	
	Advanced Cutting-edge Research Seminar I	130046	1	○	
	Advanced Cutting-edge Research Seminar II	130047	1	○	
	Advanced Cutting-edge Research Seminar III	130048	1	○	
	Advanced Cutting-edge Research Seminar IV	130049	1	○	
	Project Practice I	130050	2	○	
	Project Practice II	130051	2	○	
	Project Practice III	130052	2	○	
	Project Practice IV	130053	2	○	
	Exercise in Practical Software Development I	130054	2	○	
	Exercise in Practical Software Development II	130055	2	○	
	Theory of Advanced IT	130056	1	○	
	Studio of Advanced IT I	130057	2	○	
	Studio of Advanced IT II	130058	2	○	
	Introduction to Advanced Robot Technology	130059	1	○	
	Advanced Robot Design	130060	2	○	
	Advanced Robot Development Theory I	131061	1	○	
	Advanced Robot Development Theory II	132062	1	○	
	Lecture of Information Security Management Literacy I	130063	1	○	
	Lecture of Information Security Management Literacy II	130064	1	○	
	Exercise for Information Security PBL A	130065	1	○	
	Exercise for Information Security PBL B	130066	1	○	
	Exercise for Information Security PBL C	130067	1	○	
	Exercise for Information Security PBL D	130068	1	○	
	Exercise for Information Security PBL E	130069	1	○	
Exercise for Information Security PBL F	130070	1	○		
Exercise for Information Security PBL G	130071	1	○		
Hardware Security	130072	1	○		
General Subjects	Commentaries on Science and Technology	000201	1	○	Common subject for all schools
	Science Communication	000203	1	○	Common subject for all schools
	Skills for English Presentation I	110001	1	○	
	Methods of English Communication I	110002	1	○	
	Methods of English Communication II	111003	1	○	
	Advanced Scientific Writing	112004	1	○	
	Skills for English Presentation II	110005	1	○	
	Project Management for Research	110006	1	○	
	Literature Search	110007	1	○	
	Digital Media	110008	1	○	
	Intercultural Communication	110009	1	○	
	Intellectual Property Rights	110010	1	○	
	Global Entrepreneur I	111011	1	○	
	Global Entrepreneur II	111012	1	○	
	Global Entrepreneur III	112013	1	○	
	Global Entrepreneur IV	112014	1	○	
	Global Entrepreneur PBL	112015	1	○	
	Philosophy of Science	000103	1	○	Common subject for all schools.
	Technology and Professional Ethics	000104	1	○	Common subject for all schools.
	Information Technology for Environmental Issues	110016	1	○	
Japanese Culture	000105	2	○	Common subject for all schools.	
Japanese Class for Begginers I	000303	2	○	Common subject for all schools	
Japanese Class for Begginers II (1)	000204	1	○	Common subject for all schools	
Japanese Class for Begginers II (2)	000205	1	○	Common subject for all schools	
Japanese Class for Begginers III (1)	000206	1	○	Common subject for all schools	
Japanese Class for Begginers III (2)	000207	1	○	Common subject for all schools	
Academic Volunteer I	110017	1	○		
Academic Volunteer II	110018	1	○		
Advanced Topics in Information Science	Advanced Computing Architecture I	140001	1	□	
	Advanced Computing Architecture II	140002	1	□	
	Advanced Computing Architecture III	140003	1	□	
	Advanced Computing Architecture IV	140004	1	□	
	Advanced Dependable System I	140005	1	□	
	Advanced Dependable System II	140006	1	□	
	Advanced Dependable System III	140007	1	□	
	Advanced Dependable System IV	140008	1	□	
Advanced Ubiquitous Computing Systems I	140009	1	□		

	Advanced Ubiquitous Computing Systems II	140010	1	<input type="checkbox"/>	
	Advanced Ubiquitous Computing Systems III	140011	1	<input type="checkbox"/>	
	Advanced Ubiquitous Computing Systems IV	140012	1	<input type="checkbox"/>	
	Advanced Mobile Computing I	140013	1	<input type="checkbox"/>	
	Advanced Mobile Computing II	140014	1	<input type="checkbox"/>	
	Advanced Mobile Computing III	140015	1	<input type="checkbox"/>	
	Advanced Mobile Computing IV	140016	1	<input type="checkbox"/>	
	Advanced Software Engineering I	140017	1	<input type="checkbox"/>	
	Advanced Software Engineering II	140018	1	<input type="checkbox"/>	
	Advanced Software Engineering III	140019	1	<input type="checkbox"/>	
	Advanced Software Engineering IV	140020	1	<input type="checkbox"/>	
	Advanced Software Design and Analysis I	140021	1	<input type="checkbox"/>	
	Advanced Software Design and Analysis II	140022	1	<input type="checkbox"/>	
	Advanced Software Design and Analysis III	140023	1	<input type="checkbox"/>	
	Advanced Software Design and Analysis IV	140024	1	<input type="checkbox"/>	
	Advanced Cyber Resilience I	140025	1	<input type="checkbox"/>	
	Advanced Cyber Resilience II	140026	1	<input type="checkbox"/>	
	Advanced Cyber Resilience III	140027	1	<input type="checkbox"/>	
	Advanced Cyber Resilience IV	140028	1	<input type="checkbox"/>	
	Advanced Information Security Engineering I	140029	1	<input type="checkbox"/>	
	Advanced Information Security Engineering II	140030	1	<input type="checkbox"/>	
	Advanced Information Security Engineering III	140031	1	<input type="checkbox"/>	
	Advanced Information Security Engineering IV	140032	1	<input type="checkbox"/>	
	Advanced Internet Architecture and Systems I	140033	1	<input type="checkbox"/>	
	Advanced Internet Architecture and Systems II	140034	1	<input type="checkbox"/>	
	Advanced Internet Architecture and Systems III	140035	1	<input type="checkbox"/>	
	Advanced Internet Architecture and Systems IV	140036	1	<input type="checkbox"/>	
	Advanced Computational Linguistics I	140037	1	<input type="checkbox"/>	
	Advanced Computational Linguistics II	140038	1	<input type="checkbox"/>	
	Advanced Computational Linguistics III	140039	1	<input type="checkbox"/>	
	Advanced Computational Linguistics IV	140040	1	<input type="checkbox"/>	
	Advanced Augmented Human Communication I	140041	1	<input type="checkbox"/>	
	Advanced Augmented Human Communication II	140042	1	<input type="checkbox"/>	
	Advanced Augmented Human Communication III	140043	1	<input type="checkbox"/>	
	Advanced Augmented Human Communication IV	140044	1	<input type="checkbox"/>	
	Advanced Network Systems I	140045	1	<input type="checkbox"/>	
	Advanced Network Systems II	140046	1	<input type="checkbox"/>	
	Advanced Network Systems III	140047	1	<input type="checkbox"/>	
	Advanced Network Systems IV	140048	1	<input type="checkbox"/>	
	Advanced Interactive Media Design I	140049	1	<input type="checkbox"/>	
	Advanced Interactive Media Design II	140050	1	<input type="checkbox"/>	
	Advanced Interactive Media Design III	140051	1	<input type="checkbox"/>	
	Advanced Interactive Media Design IV	140052	1	<input type="checkbox"/>	
	Advanced Optical Media Interface I	140053	1	<input type="checkbox"/>	
	Advanced Optical Media Interface II	140054	1	<input type="checkbox"/>	
	Advanced Optical Media Interface III	140055	1	<input type="checkbox"/>	
	Advanced Optical Media Interface IV	140056	1	<input type="checkbox"/>	
	Cybernetics and Reality Engineering I	140057	1	<input type="checkbox"/>	
	Cybernetics and Reality Engineering II	140058	1	<input type="checkbox"/>	
	Cybernetics and Reality Engineering III	140059	1	<input type="checkbox"/>	
	Cybernetics and Reality Engineering IV	140060	1	<input type="checkbox"/>	
	Advanced Ambient Intelligence I	140061	1	<input type="checkbox"/>	
	Advanced Ambient Intelligence II	140062	1	<input type="checkbox"/>	
	Advanced Ambient Intelligence III	140063	1	<input type="checkbox"/>	
	Advanced Ambient Intelligence IV	140064	1	<input type="checkbox"/>	
	Advanced Robotics I	140065	1	<input type="checkbox"/>	
	Advanced Robotics II	140066	1	<input type="checkbox"/>	
	Advanced Robotics III	140067	1	<input type="checkbox"/>	
	Advanced Robotics IV	140068	1	<input type="checkbox"/>	
	Advanced Intelligent System Control I	140069	1	<input type="checkbox"/>	
	Advanced Intelligent System Control II	140070	1	<input type="checkbox"/>	
	Advanced Intelligent System Control III	140071	1	<input type="checkbox"/>	
	Advanced Intelligent System Control IV	140072	1	<input type="checkbox"/>	
	Advanced Large-Scale Systems Management I	140073	1	<input type="checkbox"/>	
	Advanced Large-Scale Systems Management II	140074	1	<input type="checkbox"/>	
	Advanced Large-Scale Systems Management III	140075	1	<input type="checkbox"/>	
	Advanced Large-Scale Systems Management IV	140076	1	<input type="checkbox"/>	
Advanced Topics in Information Science					

Advanced Topics in Information Science	Advanced Mathematical Informatics I	140077	1	<input type="checkbox"/>	
	Advanced Mathematical Informatics II	140078	1	<input type="checkbox"/>	
	Advanced Mathematical Informatics III	140079	1	<input type="checkbox"/>	
	Advanced Mathematical Informatics IV	140080	1	<input type="checkbox"/>	
	Advanced Imaging-based Computational Biomedicine I	140081	1	<input type="checkbox"/>	
	Advanced Imaging-based Computational Biomedicine II	140082	1	<input type="checkbox"/>	
	Advanced Imaging-based Computational Biomedicine III	140083	1	<input type="checkbox"/>	
	Advanced Imaging-based Computational Biomedicine IV	140084	1	<input type="checkbox"/>	
	Advanced Computational Systems Biology I	140085	1	<input type="checkbox"/>	
	Advanced Computational Systems Biology II	140086	1	<input type="checkbox"/>	
	Advanced Computational Systems Biology III	140087	1	<input type="checkbox"/>	
Advanced Computational Systems Biology IV	140088	1	<input type="checkbox"/>		
	Seminar I	140101	1	<input checked="" type="checkbox"/>	
	Seminar II	140102	1	<input checked="" type="checkbox"/>	
	Research Work	150001	4	<input type="checkbox"/>	
	Theme Research	150002	4	<input type="checkbox"/>	

◎, □, and ○ represent required, required-elective, and elective subjects.

(2) Registration methods

1. Students are required to earn 14 credits or more from specialized subjects in information science (including 8 credits or more from lectures and 2 credits or more from practices), six credits or more from general or basic subjects, 20 credits or more in total. They are also required to take Seminar I (one credit) and Seminar II (one credit), Advanced Topics in Information Science I- IV (one credit each).

Advanced Topics in Information Science I- IV provided by the laboratories that students belong to shall count as credits toward completion.

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

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

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

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

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

(3) How to read the subject numbers

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

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

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

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

- X0XXXX = Common subjects [For master's course]
- X1XXXX = General subjects [For master's course]
- X2XXXX = Basic subjects [For master's course]
- X3XXXX = Specialized subjects [For master's course]
- X4XXXX = Advanced topics (Laboratory Activities) / Seminar [For master's course]
- X5XXXX = Thesis / Specialized research / Research [For master's course]
- X6XXXX = Doctoral subjects (Except below doctoral subject) [For doctoral course]
- X7XXXX = Dissertation / Research [For doctoral course]

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

- XX0XXX = No category
- XX1XXX = Basic
- XX2XXX = Intermediate
- XX3XXX = Advanced

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

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

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

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

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

- XXX1XX = Subjects offered by the Graduate School of Information Science
- XXX2XX = Subjects offered by the Graduate School of Biological Sciences
- XXX3XX = Subjects offered by the Graduate School of Materials Science

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

- XXXXXX = Serial numbers (ranging from 01 to 99) assigned by each Graduate School

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

Attached Schedule 2 (in connection with Article 4)

Curriculum Table for the Graduate School of Information Science

(1) Course name, etc.

(Doctoral Course)

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

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

(2) Registration procedures

1. Students are required to earn 10 credits or more in total, comprising (i) two credits in the Research Status Hearing, (ii) six credits or more in Doctoral Research (I–VI), and (iii) two credits or more in other subjects.
2. Completion requirements for students who are admitted to the Doctoral Course of the Graduate School of Information Science after having been recognized as having academic ability equivalent to or greater than that of a Master's Degree holder shall be provided for separately.
3. Students who have not earned credits of following classes in master course can take them in doctoral course: Skills for Presentation II, Methods of English Communication I- II, Advanced Scientific Writing, Project Management for Research, Literature Search, Digital Media, Japanese Class for Beginners I, Japanese Class for Beginners II (1)-(2), or Japanese Class for Beginners III (1)-(2). The earned credits will be transferred to International Communications I A, International Communications I B in this order. Note that two credits of Japanese Classes for Beginners are transferred to one credit of International Communications I A or International Communications I B.
4. Students who earn credits in Advanced Cutting-edge Research Seminar I-IV are required to take the courses in Advanced Information Science I-IV on the curriculum table of the Master's Course (Attached Schedule 1) which research advisors specify. Note that students are not admitted to earn credits in the same courses in Advanced Information Science I-IV as they have already taken in the Master's Course.

(3) How to read the subject numbers

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

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

0XXXXX = Common subjects

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

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

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

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

X0XXXX = Common subjects [For master's course]

X1XXXX = General subjects [For master's course]

X2XXXX = Basic subjects [For master's course]

X3XXXX = Specialized subjects [For master's course]

X4XXXX = Advanced topics (Laboratory Activities) / Seminar [For master's course]

X5XXXX = Thesis / Specialized research / Research [For master's course]

X6XXXX = Doctoral subjects (Except below doctoral subject) [For doctoral course]

X7XXXX = Dissertation / Research [For doctoral course]

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

XX0XXX = No category

XX1XXX = Basic

XX2XXX = Intermediate

XX3XXX = Advanced

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

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

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

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

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

XXX1XX = Subjects offered by the Graduate School of Information Science

XXX2XX = Subjects offered by the Graduate School of Biological Sciences

XXX3XX = Subjects offered by the Graduate School of Materials Science

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

XXXXXX = Serial numbers (ranging from 01 to 99) assigned by each Graduate School

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