April 2026

2026
Revisions to the Curriculum Table

Graduate School
For students enrolled in/before 2026

Pages 1–35: For students who enrolled in AY 2022 to 2025

*except students who enrolled System Safety Engineering before AY 2023

Pages 36–37: For students who enrolled before AY 2021

*including students who enrolled System Safety Engineering before AY 2023

The English translation is solely for reference purpose and not a legally definiticve translation of the original Japanese text. Shoud any differences arise between two versions, the Japanese version will prevail as an official authoritative version.

<table>
<tr><th>No.</th><th>Classification
区分</th><th>Compulsory /Elective必修選択</th><th>Subject Name科目名</th><th>Credits単位</th><th>Year開講年</th><th>Term期間</th><th>Revisions改定区分</th><th>Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容</th><th>Measures to students在学生の対応</th></tr>
<tr><td colspan="10">Revision of Common Rules (Graduate School of Engineering)</td></tr>
<tr><td>1</td><td>Common</td><td>Examinations and Performance Evaluation</td><td colspan="7">Revise the Examinations and Performance Evaluation.

(New)
<table><tr><th>Grade</th><th>Achievement Level</th><th>Points</th><th>GP</th></tr><tr><td>S</td><td>Student has thoroughly fulfilled the academic objectives of the subject and has achieved outstanding results</td><td>90–100</td><td>4</td></tr><tr><td>A</td><td>Student has thoroughly fulfilled the academic objectives of the subject</td><td>80–89</td><td>3</td></tr><tr><td>B</td><td>Student has fulfilled the academic objectives of the subject</td><td>70–79</td><td>2</td></tr><tr><td>C</td><td>Student has fulfilled the minimal academic objectives of the subject</td><td>60–69</td><td>1</td></tr><tr><td>D</td><td>Student has not fulfilled the academic objectives of the subject</td><td>0–59</td><td>0</td></tr></table>
(Old)
<table><tr><th>Grade</th><th>Meaning</th><th>Points</th><th>GP</th></tr><tr><td>S</td><td>Student has thoroughly fulfilled the academic objectives of the subject and has achieved outstanding results</td><td>90–100</td><td>4</td></tr><tr><td>A</td><td>Student has thoroughly fulfilled the academic objectives of the subject</td><td>80–89</td><td>3</td></tr><tr><td>B</td><td>Student has fulfilled the academic objectives of the subject</td><td>70–79</td><td>2</td></tr><tr><td>C</td><td>Student has fulfilled the minimal academic objectives of the subject</td><td>60–69</td><td>1</td></tr><tr><td>D</td><td>Student has not fulfilled the academic objectives of the subject</td><td>0–59</td><td>0</td></tr></table></td></tr>
<tr><td colspan="10">Revision of Common Rules (5-Year Integrated Doctoral Program)</td></tr>
<tr><td>2</td><td>Common</td><td>Curriculum Policy</td><td colspan="7">Revise the Curriculum Policy of 5-Year Integrated Doctoral Program.

(New)
1. To cultivate the research implementation abilities that facilitate the formation of novel theories and development of new technologies, students are required to take Advanced Experiment of Science of Technology I and II, and students will receive research guidance for the preparation of their doctoral dissertation.

(Old)
1. To cultivate the research implementation abilities that facilitate the formation of novel theories and development of new technologies, students are required to take Advanced Experiment of Science of Technology I and II in the first two years of study. From their third year, students will receive research guidance for the preparation of their doctoral dissertation.</td></tr>
<tr><td>3</td><td>Common</td><td>On-Demand Classes</td><td colspan="7">Add the On-Demand Classes.

Students who are unable to attend classes (lecture subjects) due to off-campus dispatch or other assignments may complete all or part of the coursework through on-demand (asynchronous) classes.
The required conditions and procedure for on-demand classes are outlined below. Students who meet these conditions and wish to take on-demand classes are requested to apply using the stipulated procedure.

(1) Conditions for On-Demand Classes
On-demand classes will be permitted under the following conditions:
① Cases in which students are engaged in off-campus practical training as part of a regular subject (teaching practice, research internships, etc.)
② Cases in which students are conducting research activities at another institution under an “external research guidance” arrangement
③ Other cases in which on-demand classes are deemed necessary (limited to cases with truly compelling circumstances, excluding job hunting and extracurricular internships.)
(2) Subjects Available for On-Demand Classes
Subjects that offer on-demand classes are indicated with “☐” in the Notes column of the curriculum tables.
(3) Application Procedure for On-Demand Classes
Students who wish to take on-demand classes must obtain permission from their academic supervisors and also submit an Application for On-Demand Classes to the Division of Academic Affairs when applying for overseas dispatch subjects or external research guidance.
(4) Instructions for On-Demand Classes
Students taking on-demand classes should follow the instructions provided by the lecturer-in-charge.
*The Application for On-Demand Classes can be downloaded by accessing the LiveCampusU “Menu” → “Campus Info” → “School Shared Files”.</td></tr>
</table>

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
Revision of Common Rules (Master's Program)									
4	Common	Curriculum Policy	Revise the Curriculum Policy of Master's Program. (New) 1. Specialized education is provided through the lecture subjects, exercise subjects and experiment/practical training (or skills practice) subjects. In addition, students will receive research guidance for the preparation of their master's thesis. (Old) 1. Specialized education is provided through the lecture subjects offered in each major. In addition, students will receive research guidance for the preparation of their master's thesis through exercise subjects and experiment/practical training (or skills practice) subjects.						
5	Common	On-Demand Classes	Add the On-Demand Classes. Students who are unable to attend classes (lecture subjects) due to off-campus dispatch or other assignments may complete all or part of the coursework through on-demand (asynchronous) classes. The required conditions and procedure for on-demand classes are outlined below. Students who meet these conditions and wish to take on-demand classes are requested to apply using the stipulated procedure. (1) Conditions for On-Demand Classes On-demand classes will be permitted under the following conditions: ① Cases in which students are engaged in off-campus practical training as part of a regular subject (teaching practice, research internships, etc.) ② Cases in which students are conducting research activities at another institution under an "external research guidance" arrangement ③ Other cases in which on-demand classes are deemed necessary (limited to cases with truly compelling circumstances, excluding job hunting and extracurricular internships.) (2) Subjects Available for On-Demand Classes Subjects that offer on-demand classes are indicated with "☐" in the Notes column of the curriculum tables. (3) Application Procedure for On-Demand Classes Students who wish to take on-demand classes must obtain permission from their academic supervisors and also submit an Application for On-Demand Classes to the Division of Academic Affairs when applying for overseas dispatch subjects or external research guidance. (4) Instructions for On-Demand Classes Students taking on-demand classes should follow the instructions provided by the lecturer-in-charge. *The Application for On-Demand Classes can be downloaded by accessing the LiveCampusU "Menu" → "Campus Info" → "School Shared Files".						
6	Common	curriculum table	Add a description of the "☐" mark to the curricular chart. ☐: Subject Available for On-Demand Classes.						

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5-year Integrated Doctoral Program (Science of Technology Innovation)									
7	Major	Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation						Revise the Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation. (New) **Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Science of Technology Innovation** (Old) **Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Science of Technology Innovation**	

(New)

Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Science of Technology Innovation

	Diploma Policy			
	1. Research implementation abilities	**2. Ability to pioneer unexplored areas**	**3. Social implementation of research findings**	**4. Global innovation leader**
5-year Integrated Doctoral Program 1st-5th Grade	Doctoral Dissertation Advanced experiment of Science of technology I & II Science of technology innovation seminar I & II Science of technology innovation I & II Elective-Compulsory Subjects Subjects of Science of Technology Innovation International research internship Researcher Ethics I & II	Doctoral Dissertation Advanced experiment of Science of technology I & II Science of technology innovation seminar I & II Science of technology innovation I & II Elective-Compulsory Subjects Subjects of Science of Technology Innovation International research internship	Doctoral Dissertation Elective-Compulsory Subjects Subjects of Science of Technology Innovation International research internship Researcher Ethics I & II	Doctoral Dissertation Elective-Compulsory Subjects Subjects of Science of Technology Innovation International research internship Researcher Ethics I & II
	Advanced science of technology innovation engineering Practical work for project leader education Practical work on product development Plan drafting method for science of technology Innovation case study Practical work on research guidance Practice of Idea Development Industrial planning and management Global research strategy Tacit knowledge based innovation Design Thinking Technology Management	Advanced science of technology innovation engineering Practical work for project leader education Practical work on product development Plan drafting method for science of technology Innovation case study Practice of Idea Development Design for GIGAKU innovation Global research strategy Tacit knowledge based innovation Advanced entrepreneurship Design Thinking Technology Management	Advanced science of technology innovation engineering Practical work on venture flotation training I Practical work on venture flotation training II Practical work for project leader education English business communication Facilitation engineering on science of technology Innovation case study Practice of Idea Development Design for GIGAKU innovation Industrial planning and management Advanced industrial structure Leadership development Production factor and industrial management engineering Regional industries in foreign countries Advanced entrepreneurship	Advanced science of technology innovation engineering Practical work on venture flotation training I Practical work on venture flotation training II Practical work for project leader education English business communication Facilitation engineering on science of technology Innovation case study Global research strategy Advanced industrial structure Leadership development Production factor and industrial management engineering Regional industries in foreign countries Advanced entrepreneurship Creative Leadership
		(Common Subjects) Modern Mathematics Theory of Mathematical Analysis Sports Bio-mechanics Social Welfare Introduction of Cognitive Science Language and Thought Advanced Psychology	(Common Subjects) Advanced Safety Engineering Advanced Safety and Information Security I & II Science and technology in modern society Decarbonization System Advanced Business Management Practice of Idea Development Japanese Industrial Development and SDGs Gigaku Innovation and Creativity An outline of Intellectual Property Introduction to the SDG Practice	(Common Subjects) Technological English English for Science and Technology English For Academic Purposes Analytical Reasoning and Presentation Professional Discourse and Presentation Fundamental English for Graduate Students English Presentation Skills Language and Understanding of Other Cultures Characters in Modern Japanese Literature Chinese Thought and Society Social Skills Considering from Diversity International Relations Introduction to the SDG Practice

(Old)

Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Science of Technology Innovation

	Diploma Policy			
	1. Research implementation abilities	**2. Ability to pioneer unexplored areas**	**3. Social implementation of research findings**	**4. Global innovation leader**
5-year Integrated Doctoral Program 1st-5th Grade	Doctoral Dissertation Advanced experiment of Science of technology I & II Science of technology innovation seminar I & II Science of technology innovation I & II Elective-Compulsory Subjects Subjects of Science of Technology Innovation International research internship Researcher Ethics I & II	Doctoral Dissertation Advanced experiment of Science of technology I & II Science of technology innovation seminar I & II Science of technology innovation I & II Elective-Compulsory Subjects Subjects of Science of Technology Innovation International research internship	Doctoral Dissertation Elective-Compulsory Subjects Subjects of Science of Technology Innovation International research internship Researcher Ethics I & II	Doctoral Dissertation Elective-Compulsory Subjects Subjects of Science of Technology Innovation International research internship Researcher Ethics I & II
	Advanced science of technology innovation engineering Practical work for project leader education Practical work on product development Plan drafting method for science of technology Innovation case study Practical work on research guidance Practice of Idea Development Industrial planning and management Global research strategy Tacit knowledge based innovation Design Thinking Robotic Proces Automation(RPA) Technology Management	Advanced science of technology innovation engineering Practical work for project leader education Practical work on product development Plan drafting method for science of technology Innovation case study Practice of Idea Development Design for GIGAKU innovation Global research strategy Tacit knowledge based innovation Advanced entrepreneurship Cultural Intelligence(CQ) Design Thinking Robotic Process Automation(RPA) Social Innovation Technology Management Think Like A Futurist	Advanced science of technology innovation engineering Practical work on venture flotation training I Practical work on venture flotation training II Practical work for project leader education English business communication Facilitation engineering on science of technology Innovation case study Practice of Idea Development Design for GIGAKU innovation Industrial planning and management Advanced industrial structure Leadership development Production factor and industrial management engineering Regional industries in foreign countries Advanced entrepreneurship Business Communication Cultural Intelligence(CQ) Digital Communications Social Innovation	Advanced science of technology innovation engineering Practical work on venture flotation training I Practical work on venture flotation training II Practical work for project leader education English business communication Facilitation engineering on science of technology Innovation case study Global research strategy Advanced industrial structure Leadership development Production factor and industrial management engineering Regional industries in foreign countries Advanced entrepreneurship Buisiness Communication Creative Leadership Cultural Leadership Digital Communications Think Like A Futurist
		(Common Subjects) Modern Mathematics Theory of Mathematical Analysis Sports Bio-mechanics Social Welfare Introduction of Cognitive Science Language and Thought Advanced Psychology	(Common Subjects) Advanced Safety Engineering Advanced Safety and Information Security I & II Science and technology in modern society Energy and Economy in Japan Advanced Business Management Practice of Idea Development Japanese Industrial Development and SDGs Gigaku Innovation and Creativity An outline of Intellectual Property Introduction to the SDG Practice	(Common Subjects) Technological English English for Science and Technology English For Academic Purposes Analytical Reasoning and Presentation Professional Discourse and Presentation Fundamental English for Graduate Students English Presentation Skills Language and Understanding of Other Cultures Characters in Modern Japanese Literature Social Skills Considering from Diversity International Relations Introduction to the SDG Practice

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8	Common	curriculum table	Add a description of the "☐" mark to the curricular chart. ☐: Subject Available for On-Demand Classes.						
9	Major	Compulsory	Researcher Ethics I	1	1・2	2	Change in Notes Column	☆→☆ ☐	N/A
10	Major	Elective-Compulsory	Advanced science of technology innovation engineering	2	1・2	1・2	Change in Notes Column	☆→☆ ☐	N/A
11	Major	Elective-Compulsory	Facilitation engineering on science of technology	2	1〜5	2	Change in Notes Column	○ ☆→○ ☆ ☐	N/A
12	Major	Elective-Compulsory	Plan drafting method for science of technology	1	1〜5	1〜3	Change in Notes Column	☆→☆ ☐	N/A
13	Major	Elective	Industrial planning and management	2	1〜5	1	Change in Notes Column	E ☆→E ☆ ☐	N/A
14	Major	Elective	Global research strategy	2	1〜5	1	Change in Notes Column	E ☆→E ☆ ☐	N/A
15	Major	Elective	Advanced industrial structure	2	1〜5	1	Change in Notes Column	E ☆→E ☆ ☐	N/A
16	Major	Elective	Tacit knowledge based innovation	2	1〜5	2	Change in Notes Column	E ☆→E ☆ ☐	N/A
17	Major	Elective	Production factor and industrial management engineering	2	1〜5	2	Change in Notes Column	O ☆→O ☆ ☐	N/A
18	Major	Elective	Regional industries in foreign countries	2	1〜5	2	Change in Notes Column	E ☆→E ☆ ☐	N/A
19	Major	Elective	Advanced entrepreneurship	2	1〜5	1〜3	Change in Notes Column	O ☆→O ☆ ☐	N/A
20	Major	Elective	Business Communication	2	1〜5	2	Discontinuted	As shown in the left	N/A
21	Major	Elective	Creative Leadership	2	1〜5	2	Change in Notes Column	☆→☆ ☐	N/A
22	Major	Elective	Cultural Intelligence (CQ)	2	1〜5	1	Discontinuted	As shown in the left	N/A
23	Major	Elective	Cultural Leadership	2	1〜5	2	Discontinuted	As shown in the left	N/A
24	Major	Elective	Design Thinking	2	1〜5	1	Change in Notes Column	☆→☆ ☐	N/A
25	Major	Elective	Digital Communications	2	1〜5	2	Discontinuted	As shown in the left	N/A
26	Major	Elective	Robotic Process Automation (RPA)	2	1〜5	1	Discontinuted	As shown in the left	N/A
27	Major	Elective	Social Innovation	2	1〜5	2	Discontinuted	As shown in the left	N/A
28	Major	Elective	Technology Management	2	1〜5	1	Change in Notes Column	☆→☆ ☐	N/A
29	Major	Elective	Think Like A Futurist	2	1〜5	1	Discontinuted	As shown in the left	N/A
30	Major	Elective	Theory of Mathematical Analysis	2	1・2	1	Change in Notes Column	☐	N/A
31	Major	Elective	Sports Bio-mechanics	2	1・2	1	Change in Notes Column	☐	N/A
32	Major	Elective	Introduction of Cognitive Science	2	1・2	1	Change in Notes Column	☐	N/A
33	Major	Elective	Language and Thought	2	1・2	2	Change in Notes Column	☐	N/A
34	Major	Elective	Advanced Psychology	2	1・2	2	Change of Term Change in Notes Column	2nd Term→1st Term ☐	N/A
35	Major	Elective	Science and Technology in Modern Society	2	1・2	1	Change in Notes Column	As shown in the left	N/A
36	Major	Elective	Energy and Economy in Japan	2	1・2	1	Discontinuted	As shown in the left	N/A
37	Major	Elective	Decarbonized System	2	1・2	1	Newly-Established	Li ☐	Students who enrolled in and before AY 2025 can take this subject.
38	Major	Elective	Gigaku Innovation and Creativity	2	1・2	1	Change in Notes Column	☆→☆ ☐	N/A
39	Major	Elective	Technological English	2	1・2	2	Change in Notes Column	★→★ ☐	N/A
40	Major	Elective	Fundamental English for Graduate Students	2	1・2	2	Change in Notes Column	★→★ ☐	N/A
41	Major	Elective	Language and Understanding of Other Cultures	2	1・2	1	Change in Notes Column	☐	N/A
42	Major	Elective	Chinese Thought and Society	2	1・2	1	Newly-Established	Hasegawa	Students who enrolled in and before AY 2025 can take this subject.
43	Major	Elective	Social Skills Considering from Diversity	2	1・2	1	Change in Notes Column	☐	N/A

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Master's Program (Mechanical Engineering)									
44	Major	subject figure	Revise the subject figure. (New) (Old)						

(New)

	Mechatronics Engineering Focus	Smart Factory Focus	Environment and Energy Focus
Bachelor's Program in Engineering (Elective-Compulsory・General Elective)	〔Common/General Subjects〕 Exercises in Mathematics and Dynamics, Exercises in Computer Programming, Applied Statistics, Linear Algebra, Electronic Circuits, Fundamentals of Mechatronics, Materials Thermodynamics, Integrated Exercises for Mechanical Engineering 4, Special Lectures on Mechanical Engineering, Fundamentals of Safety Engineering, Engineering Materials, Materials Physics, Materials Processing Technology		
	(Elective-Compulsory) Advanced Course in Strength of Materials, Machine Dynamics, Design Engineering of Machine Elements, Fundamental Study of Computational Mechanics, Instrumentation and Control Engineering, Dynamical Systems and Control	(Elective-Compulsory) Advanced course in Materials 1, Advanced course in Materials 2, Engineering Materials, Design Engineering of Mechanical Systems, Machine Dynamics, Design Engineering of Machine Elements, Smart factory	(Elective-Compulsory) Advanced course in Materials 1, Applied Thermodynamics, Applied Fluid Mechanics, Fluid Engineering, Environment and Energy
Master's Program in Engineering	〔Common Subjects〕 Advanced Mechanical Engineering, Information Technologies for Mechanical Engineering, Advanced Lecture on Solid State Physics, Advanced Instrumental Analysis for Materials, Advanced Course for Microstructure of Materials, Advanced non-ferrous metal materials, Strength of Advanced Materials, Anisotropic Engineering, Research Integrity		
	Advanced Automation, Advanced Study on Mathematical Design, Bioengineering Robot Dynamics and Control	Tribology, Advanced Construction Machinery Engineering, Fracture Mechanics, Ultrasonic machining, Processing Technology on Advanced Single Crystals	Advanced Combustion, Advanced Compressible Fluid Dynamics, Advanced Course for Non-Newton Fluid, Advanced Thermal Systems Engineering, High Energy Materials Engineering, Snow and Ice Technology

(Old)

	Mechatronics Engineering Focus	Smart Factory Focus	Environment and Energy Focus
Bachelor's Program in Engineering (Elective-Compulsory・General Elective)	〔Common/General Subjects〕 Exercises in Mathematics and Dynamics, Exercises in Computer Programming, Applied Statistics, Linear Algebra, Electronic Circuits, Fundamentals of Mechatronics, Materials Thermodynamics, Integrated Exercises for Mechanical Engineering 4, Special Lectures on Mechanical Engineering, Fundamentals of Safety Engineering, Engineering Materials, Materials Physics, Materials Processing Technology		
	(Elective-Compulsory) Advanced Course in Strength of Materials, Machine Dynamics, Design Engineering of Machine Elements, Fundamental Study of Computational Mechanics, Instrumentation and Control Engineering, Dynamical Systems and Control	(Elective-Compulsory) Advanced course in Materials 1, Advanced course in Materials 2, Engineering Materials, Design Engineering of Mechanical Systems, Machine Dynamics, Design Engineering of Machine Elements, Smart factory	(Elective-Compulsory) Advanced course in Materials 1, Applied Thermodynamics, Applied Fluid Mechanics, Fluid Engineering, Environment and Energy
Master's Program in Engineering	〔Common Subjects〕 Advanced Mechanical Engineering, Information Technologies for Mechanical Engineering, Social Innovation, Advanced Lecture on Solid State Physics, Advanced Instrumental Analysis for Materials, Advanced Course for Microstructure of Materials, Advanced non-ferrous metal materials, Strength of Advanced Materials, Anisotropic Engineering, Research Integrity		
	Advanced Automation, Advanced Study on Mathematical Design, Precise measurement engineering, Bioengineering Robot Dynamics and Control	Tribology, Advanced Construction Machinery Engineering, Fracture Mechanics, Engineering Ultrasound, Ultrasonic machining, Processing Technology on Advanced Single Crystals Physics of Laser Materials Processing	Advanced Thermal Engineering Advanced Compressible Fluid Dynamics, Advanced Course for Non-Newton Fluid, Radiative Heat Transfer and Solar Energy Engineering, High Energy Materials Engineering, Snow and Ice Technology

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45	Major	Correspondence Table of Diploma Policy, Subjects and Master's Thesis							

Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis.

(New)

Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Mechanical Engineering

	Diploma Policy			
	1. Advanced expertise	**2. Flexible conceptualization abilities in science and technology**	**3. Strategic technological development and research abilities**	**4. Global leader in science and technology**
Master's Program **1st-2nd Grade**	Master' s Thesis Anisotropic Engineering (I), Information Technologies for Mechanical Engineering (I) **Mechatronics Engineering Focus:** Advanced Automation (I), Advanced Study on Mathematical Design (I), Bioengineering, Robot Dynamics and Control **Smart Factory Focus:** Tribology, Fracture Mechanics, Ultrasonic machining, Processing Technology on Advanced Single Crystals **Environment and Energy Focus:** Advanced Combustion, Advanced Compressible Fluid Dynamics (I), Advanced Course for Non-Newton Fluid, Advanced Thermal Systems Engineering, High Energy Materials Engineering, Snow and Ice Technology (I, S) Practical Study Project on Mechanical Engineering Learning through the Study Project on Mechanical Engineering Research Integrity	Master' s Thesis Advanced Lecture on Solid State Physics, Advanced Instrumental Analysis for Materials, Advanced Course for Microstructure of Materials, Advanced Non-Ferrous Metal Materials, Strength of Advanced Materials, Anisotropic Engineering (I), Information Technologies for Mechanical Engineering (I) Practical Study Project on Mechanical Engineering Learning through the Study Project on Mechanical Engineering Subjects of other majors	Master' s Thesis Advanced Mechanical Engineering, Mechanical Engineering Special Practicals 1 & 2, Mechanical Engineering Seminars 1 to 4 Practical Study Project on Mechanical Engineering Learning through the Study Project on Mechanical Engineering	Master' s Thesis Mechanical Engineering Special Practicals 1 & 2, Mechanical Engineering Seminars 1 to 4, Practical Study Project on Mechanical Engineering Learning through the Study Project on Mechanical Engineering Research Integrity

I: Information subject recommend to be taken, S: Safety subject recommended to be taken

(Old)

Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Mechanical Engineering

	Diploma Policy			
	1. Advanced expertise	**2. Flexible conceptualization abilities in science and technology**	**3. Strategic technological development and research abilities**	**4. Global leader in science and technology**
Master's Program **1st-2nd Grade**	Master' s Thesis Anisotropic Engineering (I), Information Technologies for Mechanical Engineering (I) **Mechatronics Engineering Focus:** Advanced Automation, Advanced Study on Mathematical Design (I), Advanced Precision Metrology, Bioengineering, Robot Dynamics and Control **Smart Factory Focus:** Tribology, Advanced Construction Machinery Engineering, Fracture Mechanics, Ultrasonic machining, Engineering Ultrasound, Processing Technology on Advanced Single Crystals, Physics of Laser Materials Processing **Environment and Energy Focus:** Advanced Thermal Engineering, Advanced Compressible Fluid Dynamics, Advanced Course for Non-Newton Fluid, Radiative Heat Transfer and Solar Energy Engineering, High Energy Materials Engineering, Snow and Ice Technology (S) Practical Study Project on Mechanical Engineering Learning through the Study Project on Mechanical Engineering Research Integrity	Master' s Thesis Advanced Lecture on Solid State Physics, Advanced Instrumental Analysis for Materials, Advanced Course for Microstructure of Materials, Advanced Non-Ferrous Metal Materials, Strength of Advanced Materials, Anisotropic Engineering (I), Information Technologies for Mechanical Engineering (I) Practical Study Project on Mechanical Engineering Learning through the Study Project on Mechanical Engineering Subjects of other majors	Master' s Thesis Advanced Mechanical Engineering, Social Innovation Mechanical Engineering Special Practicals 1 & 2, Mechanical Engineering Seminars 1 to 4 Practical Study Project on Mechanical Engineering Learning through the Study Project on Mechanical Engineering	Master' s Thesis Mechanical Engineering Special Practicals 1 & 2, Mechanical Engineering Seminars 1 to 4Practical Study Project on Mechanical Engineering Learning through the Study Project on Mechanical Engineering Research Integrity

I: Information subject recommend to be taken, S: Safety subject recommended to be taken

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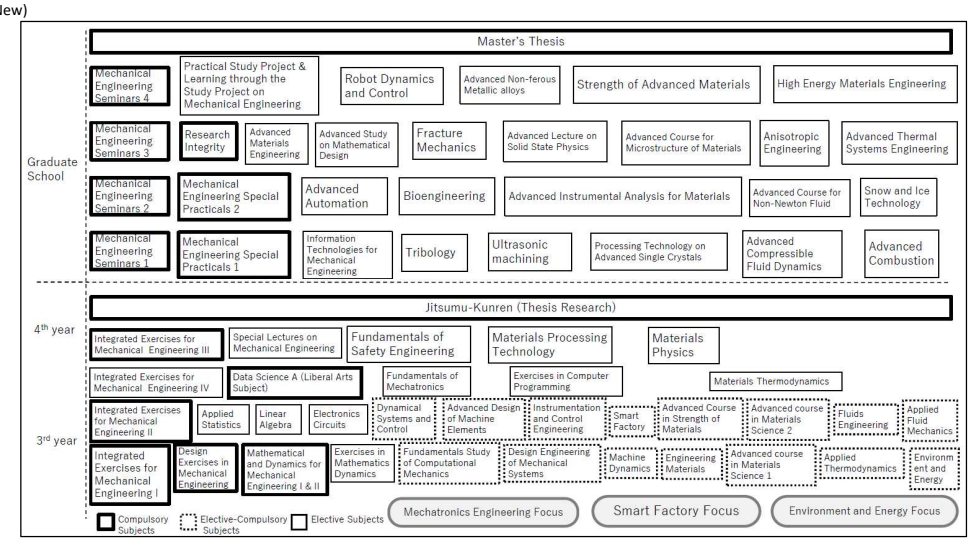
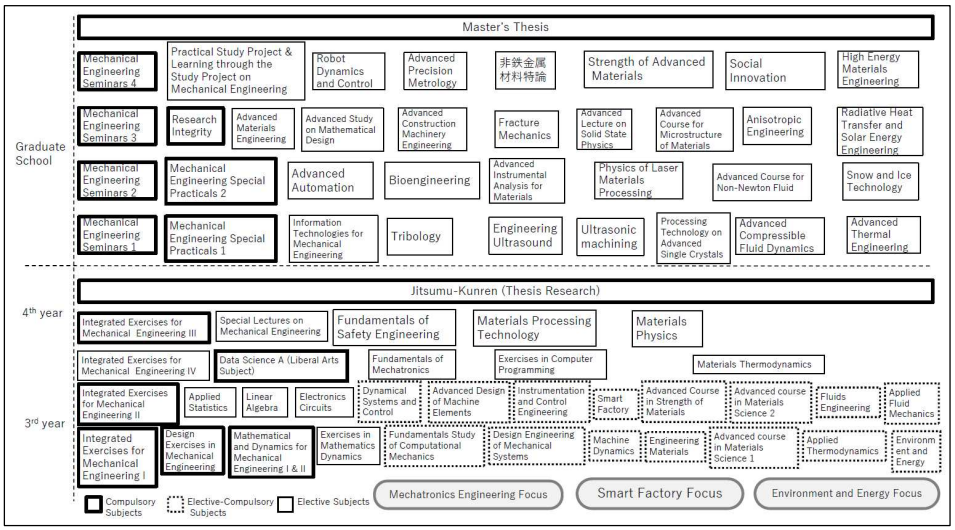
23	Major	Subject Organizatio n Diagram						Revise the Subject Organization Diagram. (New)  (Old)  	

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
47	Major	Elective	Advanced Mechanical Engineering	2	1・2	1	Change in Notes Column	□	N/A
48	Major	Elective	Robot Dynamics and Control	2	1・2	1	Change in Notes Column	●→● □	N/A
49	Major	Elective	Advanced Automation	2	1・2	2	Change in Notes Column	☆ A K→☆ A □ I K	N/A
50	Major	Elective	Tribology	2	1・2	2	Change in Notes Column	K→□ K	N/A
51	Major	Elective	Ultrasonic machining	2	1・2	1	Change in Notes Column	A K→A □ K	N/A
52	Major	Elective	Advanced Precision Metrology	2	1・2	1	Discontinuted	As shown in the left	N/A
53	Major	Elective	Engineering Ultrasound	2	1・2	2	Discontinuted	As shown in the left	N/A
54	Major	Elective	Snow and Ice Technology	2	1・2	1・2	Change in Notes Column	A ★ K S *Classes are held in English in the first term and Japanese in the second term. →A ★ □ I K S *Classes are held in English in the first term during oddnumbered years according to the Reiwa Calendar.	N/A
55	Major	Elective	Advanced Thermal Engineering	2	1・2	1	Change of Subject Name Change in Notes Column	Advanced Thermal Engineering →Advanced Combustion K→□ K	Students who have earned credits for Advanced Thermal Engineering cannot take this subject.
56	Major	Elective	Advanced Compressible Non-Newton Fluid	2	1・2	2	Change in Notes Column	★ K→★ □ K I	N/A
57	Major	Elective	Radiative Heat Transfer and Solar Energy Engineering	2	1・2	2	Change of Subject Name Change in Notes Column	Radiative Heat Transfer and Solar Energy Engineering →Advanced Thermal Systems Engineering ★ K→★ □ K	Students who have earned credits for Radiative Heat Transfer and Solar Energy Engineering cannot take this subject.
58	Major	Elective	Robot Dynamics and Control	2	1・2	1	Change in Notes Column	●→● □	N/A
59	Major	Elective	High Energy Materials Engineering	2	1・2	1	Change in Notes Column	★→★ □	N/A
60	Major	Elective	Advanced non-ferrous metal materials	2	1・2	2	Change in Notes Column	★ K→★ □ K I	N/A
61	Major	Elective	Advanced Instrumental Analysis for Materials	1	1・2	1	Change in Notes Column	① ★→① ★ □	N/A
62	Major	Elective	Advanced Course for Microstructure of Materials	2	1・2	1	Change in Notes Column	K→□ K	N/A
63	Major	Elective	Advanced Study on Mathematical Design	2	1・2	2	Newly-Established	★ I→★ □ I	N/A
64	Major	Elective	Advanced Lecture on Solid State Physics	2	1・2	2	Change in Notes Column	A ● K→A ● □ K	N/A
65	Major	Elective	Social Innovation	2	1・2	2	Discontinuted	As shown in the left	N/A
66	Major	Elective	Anisotropic Engineering	2	1・2	2	Change in Notes Column	E A I K→E A □ I K	N/A
67	Major	Elective	Anisotropic Engineering	2	1・2	1	Discontinuted	As shown in the left	N/A

<table>
<tr><th>No.</th><th>Classification
区分</th><th>Compulsory
/Elective必
修選択</th><th>Subject Name科目名</th><th>Credits単位</th><th>Year開講年</th><th>Term期間</th><th>Revisions改定区分</th><th>Subject name,
Lecturer-in-Charge and Term etc.
(Changes are shown as
[Before revision] → [After
revision].)細かい改定内容</th><th>Measures to
students在学生の
対応</th></tr>
<tr><td>68</td><td>Major</td><td>subject figure</td><td colspan="8">Revise the subject figure.

(New)
○ Mechanical Engineering recommends the following major subjects from other majors.

Mechanical Engineering - Recommended Subjects

<table><tr><th>Recommended major of Mechanical Engineering - Discipline Name</th><th>Electrical, Electronics and Information Engineering</th><th>Materials Science and Engineering/Bioengineering</th><th>Civil and Environmental Engineering</th></tr><tr><td>Mechatronics Engineering</td><td>Statistical Signal Processing</td><td>Advances in cell motility</td><td></td></tr><tr><td>Smart Factory</td><td>Mathematical and Data Science</td><td>Electric Properties of Solids
Advanced Molecular</td><td>Advanced Structural Analysis</td></tr><tr><td>Environment and Energy Engineering</td><td>Advanced Power Electronics</td><td>Electric Properties of Solids
Advanced Molecular
Genetics</td><td>Advanced Hydraulics
Advanced Environmental Information
Survey Engineering</td></tr></table>
(Old)
○ Mechanical Engineering recommends the following major subjects from other majors.

Mechanical Engineering - Recommended Subjects

<table><tr><th>Recommended major of Mechanical Engineering - Discipline Name</th><th>Electrical, Electronics and Information Engineering</th><th>Materials Science and Engineering/Bioengineering</th><th>Civil and Environmental Engineering</th></tr><tr><td>Mechatronics Engineering</td><td>Advanced Course of Digital Image Processing</td><td>Advances in cell motility</td><td></td></tr><tr><td>Smart Factory</td><td>Mathematical and Data Science</td><td>Electric Properties of Solids
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Advanced Molecular
Genetics</td><td>Advanced Hydraulics
Advanced Environmental Information
Survey Engineering
Advanced Topics on Atmospheric and Hydrospheric Sciences 2</td></tr></table></td></tr>
</table>

<table>
<tr><th>No.</th><th>Classification
区分</th><th>Compulsory /Elective必修選択</th><th>Subject Name科目名</th><th>Credits単位</th><th>Year開講年</th><th>Term期間</th><th>Revisions改定区分</th><th>Subject name, Lecturer-in-Charge and Term etc.
(Changes are shown as [Before revision] → [After revision].)細かい改定内容</th><th>Measures to students在学生の対応</th></tr>
<tr><td colspan="10">Master's Program (Electircal, Electronics and Information Engineering)</td></tr>
<tr><td>69</td><td>Major</td><td>Correspondence Table of Diploma Policy, Subjects and Master's Thesis</td><td colspan="7">Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis.
(New)
Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Electrical, Electronics and Information Engineering
<table><tr><th></th><th colspan="4">Diploma Policy</th></tr><tr><th></th><th>1. Advanced expertise</th><th>2. Flexible conceptualization abilities in science and technology</th><th>3. Strategic technological development and research abilities</th><th>4. Global leader in science and technology</th></tr><tr><td>Master's Program
1st-2nd Grade</td><td>Master's Thesis
Electric Energy and Control Engineering Focus: Motion Control and AI (Information subject recommended to be taken), Advanced Engineering on Electromagnetic Energy, Advanced Course for Mechatronics (Safety subject recommended to be taken), Power Electronics, Advanced Power Device, Advanced Medium Voltage Converters (Safety subject recommended to be taken), Advanced Study for High Energy Density Science, Advanced Study for Plasma Diagnostics, Electrical Power System Engineering, Advanced Energy Conversion, Ion Beam Engineering
Electronic Devices and Light Wave Control Engineering Focu: Materials Science on High-Tc Superconductors, Semiconductor Devices, Advanced Theory of Quantum Electronics, Optical Materials Engineering, Technology for Electronic Materials Synthesis, Advanced Quantum Theory for Electronic Materials, Advanced Topics on Spectroscopy, Materials Informatics (Information subject recommended to be taken), Functional Optical Devices, Advanced Computational Electromagnetics (Information subject recommended to be taken), Advanced Optical Sensing
Information Telecommunication and Control Focu: Statistical Signal Processing (Information subject recommended to be taken), Mathematical and Data Science (Information subject recommended to be taken), Advanced Artificial Neural Networks (Information subject recommended to be taken), Advanced Digital Signal Processing Systems (Information subject recommended to be taken), Advanced Neural Engineering, Biomedical Sensing, Data Analysis (Information subject recommended to be taken), Advanced Control Systems
Advanced Instrumental Analysis for Materials, Advanced Experiments on Seminar on Electrical, Electronics and Information Engineering, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering, Learning through the Study Project on Electrical, Electronics and Information Engineering, Learning, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering
Research Integrity</td><td>Master's Thesis
Seminar on Electrical, Electronics and Information Engineering I-IV, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering, Learning through the Study Project on Electrical, Electronics and Information Engineering, Learning, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering
Subjects of other majors</td><td>Master's Thesis
Seminar on Electrical, Electronics and Information Engineering I-IV, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering, Learning through the Study Project on Electrical, Electronics and Information Engineering, Learning, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering</td><td>Master's Thesis
Seminar on Electrical, Electronics and Information Engineering I-IV, Special Exercises in Technical English 1, Special Exercises in Technical English 2, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering, Learning through the Study Project on Electrical, Electronics and Information Engineering, Learning, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering
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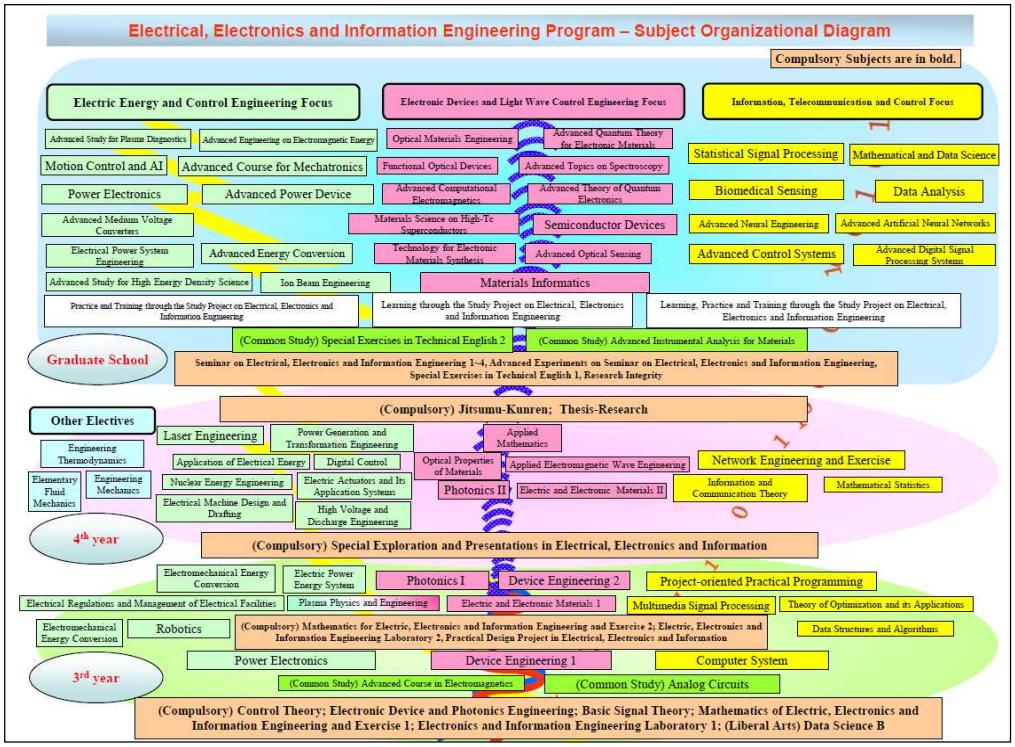
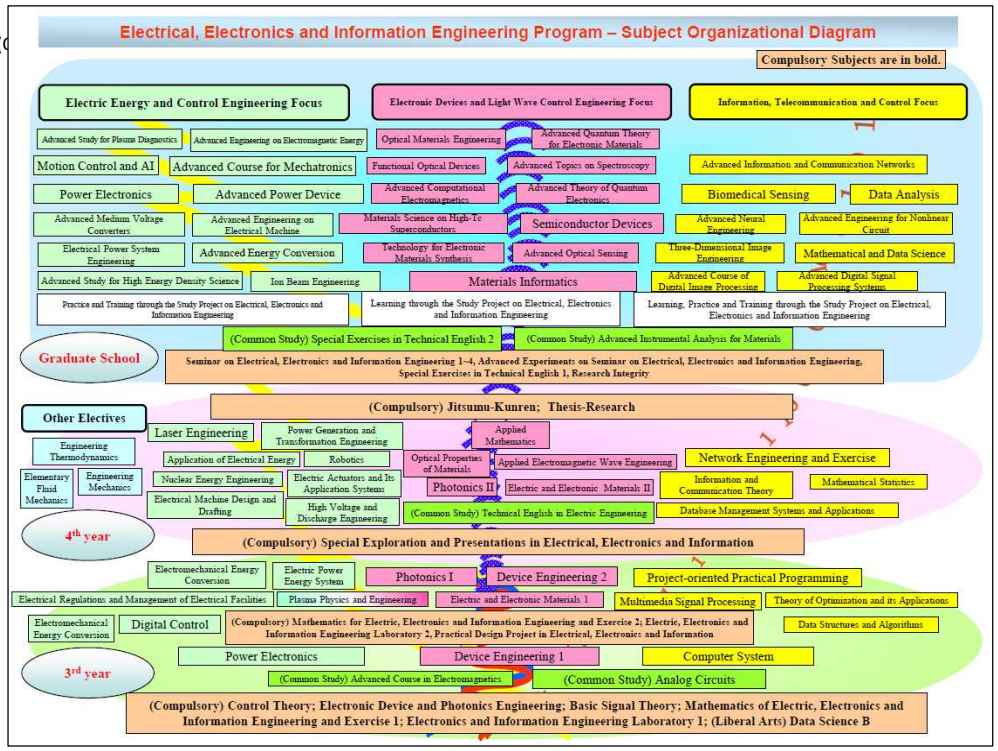
Electronic Devices and Light Wave Control Engineering Focus: Materials Science on High-Tc Superconductors, Semiconductor Devices, Advanced Theory of Quantum Electronics, Optical Materials Engineering, Technology for Electronic Materials Synthesis, Advanced Quantum Theory for Electronic Materials, Advanced Topics on Spectroscopy, Materials Informatics, Functional Optical Devices, Advanced Computational Electromagnetics (Information subject recommended to be taken), Advanced Optical Sensing
Information Telecommunication and Control Focus: Advanced Course of Digital Image Processing, Mathematical and Data Science (Information subject recommended to be taken), Advanced Information and Communication Networks, Advanced Engineering for Nonlinear Circuit, Three-Dimensional Image Engineering, Advanced Digital Signal Processing Systems (Information subject recommended to be taken), Advanced Neural Engineering, Biomedical Sensing, Data Analysis (Information subject recommended to be taken)
Advanced Instrumental Analysis for Materials, Advanced Experiments on Seminar on Electrical, Electronics and Information Engineering, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering, Learning through the Study Project on Electrical, Electronics and Information Engineering, Learning, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering
Research Integrity</td><td>Master's Thesis
Seminar on Electrical, Electronics and Information Engineering I-IV, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering, Learning through the Study Project on Electrical, Electronics and Information Engineering, Learning, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering
Subjects of other majors</td><td>Master's Thesis
Seminar on Electrical, Electronics and Information Engineering I-IV, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering, Learning through the Study Project on Electrical, Electronics and Information Engineering, Learning, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering</td><td>Master's Thesis
Seminar on Electrical, Electronics and Information Engineering I-IV, Special Exercises in Technical English 1, Special Exercises in Technical English 2, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering, Learning through the Study Project on Electrical, Electronics and Information Engineering, Learning, Practice and Training through the Study Project on Electrical, Electronics and Information Engineering
Research Integrity</td></tr></table></td></tr>
</table>

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
70	Major	Subject Organization Diagram	Revise the subject figure. (New)  ( 								

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
71	Major	Elective	Advanced Course for Mechatronics	2	1・2	2	Change in Notes Column	O ★ K S→O ★ □ K S	N/A
72	Major	Elective	Advanced Power Electronics	2	1・2	1	Change in Notes Column	O A K→O A □ K	Students who have earned credits for Energy Conversion and Control Engineering cannot take this subject
73	Major	Elective	Advanced Study for High Energy Density Science	2	1・2	2	Change in Notes Column	O A K→O A □ K	N/A
74	Major	Elective	Advanced Study for Plasma Diagnostics	2	1・2	1	Change in Notes Column	★ A K→★ A □ K	N/A
75	Major	Elective	Advanced Engineering on Electrical Machine	2	1・2	2	Discontinuted	As shown in the left	N/A
76	Major	Elective	Advanced Energy Conversion	2	1・2	2	Change in Notes Column	O ★→O ★ □	N/A
77	Major	Elective	Ion Beam Engineering	2	1・2	2	Change in Notes Column	E ★→E ★ □	N/A
78	Major	Elective	Materials Science on High-Tc Superconductors	2	1・2	1	Change in Notes Column	O ★ A K→O ★ A □ K	N/A
79	Major	Elective	Materials Science on High-Tc Superconductors	2	1・2	2	Change in Notes Column	E A K→E A □ K	N/A
80	Major	Elective	Advanced Theory of Quantum Electronics	2	1・2	2	Change in Notes Column	A K→A □ K	N/A
81	Major	Elective	Optical Materials Engineering	2	1・2	2	Change in Notes Column	A K→A □ K	N/A
82	Major	Elective	Technology for Electronic Materials Synthesis	2	1・2	1	Change in Notes Column	A K→A □ K	N/A
83	Major	Elective	Advanced Topics on Spectroscopy	2	1・2	1	Change in Notes Column	A K→A □ K	N/A
84	Major	Elective	Materials Informatics	2	1・2	2	Change in Notes Column	A K→A □ I K	N/A
85	Major	Elective	Functional Optical Devices	1	1・2	2	Change in Notes Column	E A K→E A □ K	N/A
86	Major	Elective	Advanced Computational Electromagnetics	2	1・2	2	Change in Notes Column	A I K→A □ I K	N/A
87	Major	Elective	Advanced Optical Sensing	2	1・2	2	Change in Notes Column	★→★ □	N/A
88	Major	Elective	Advanced Course of Digital Image Processing	2	1・2	1	Change of Subject Name Change in Notes Column	Advanced Course of Digital Image Processing →Statistical Signal Processing E A K→E A □ I K	Students who have earned credits for Advanced Course of Digital Image Processing cannot take this subject
89	Major	Elective	Mathematical and Data Science	2	1・2	2	Change in Notes Column	E A I K→E A □ I K	N/A
90	Major	Elective	Advanced Information and Communication Networks	2	1・2	1	Discontinuted	As shown in the left	N/A
91	Major	Elective	Advanced Information and Communication Networks	2	1・2	1	Change of Subject Name Change in Notes Column	Advanced Engineering for Nonlinear Circuit →Advanced Artificial Neural Networks A K→A □ I K	Students who have earned credits for Advanced Engineering for Nonlinear Circuit cannot take this subject
92	Major	Elective	Advanced Information and Communication Networks	2	1・2	2	Discontinuted	As shown in the left	N/A
93	Major	Elective	Advanced Digital Signal Processing Systems	2	1・2	1	Change in Notes Column	O A I K→O A □ I K	N/A
94	Major	Elective	Advanced Digital Signal Processing Systems	2	1・2	2	Change in Notes Column	A K→A □ K	N/A
95	Major	Elective	Biomedical Sensing	2	1・2	2	Change in Notes Column	O→O □	N/A
96	Major	Elective	Data Analysis	2	1・2	2	Change in Notes Column	E ★ I→E ★ □ I	N/A

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
97	Major	Elective	Advanced Control Systems	2	1・2	2	Newly-Established	Toyoda E ☐	Students who enrolled in and before AY 2025 can take this subject
98	Major	Elective	Advanced Instrumental Analysis for Materials	1	1・2	1	Change in Notes Column	① ★→① ★ □	N/A
99	Major	Recommended to take the subjects from other majors	Revise the Recommended to take the subjects from other majors. (New) Electric Energy and Control Engineering Discipline Advanced Automation (Mechanical Engineering) Electronic Devices and Light Wave Control Engineering Discipline Advanced Lecture on Solid State Physics (Mechanical Engineering) (Old) Electric Energy and Control Engineering Discipline Advanced Automation (Mechanical Engineering) Electronic Devices and Light Wave Control Engineering Discipline Advanced Lecture on Solid State Physics (Mechanical Engineering) Information, Telecommunication and Control Discipline Computational Intelligence (Information and Management Systems Engineering)						

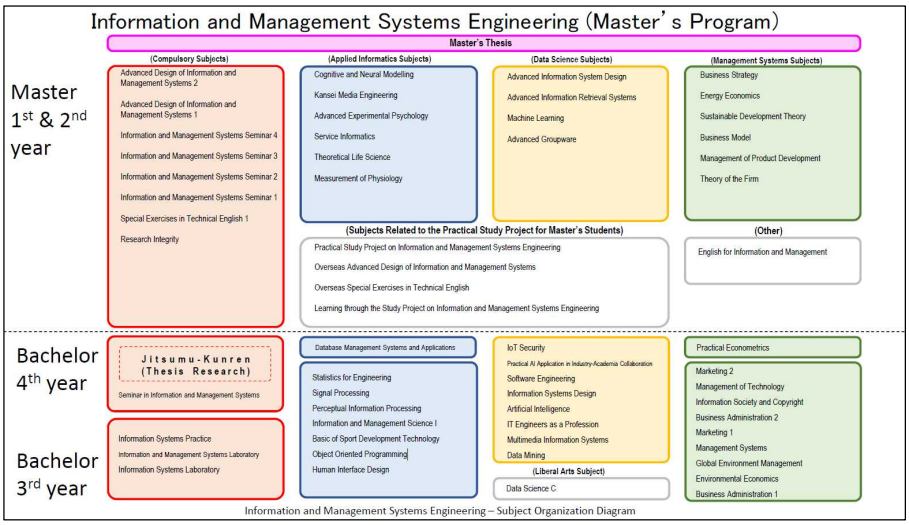
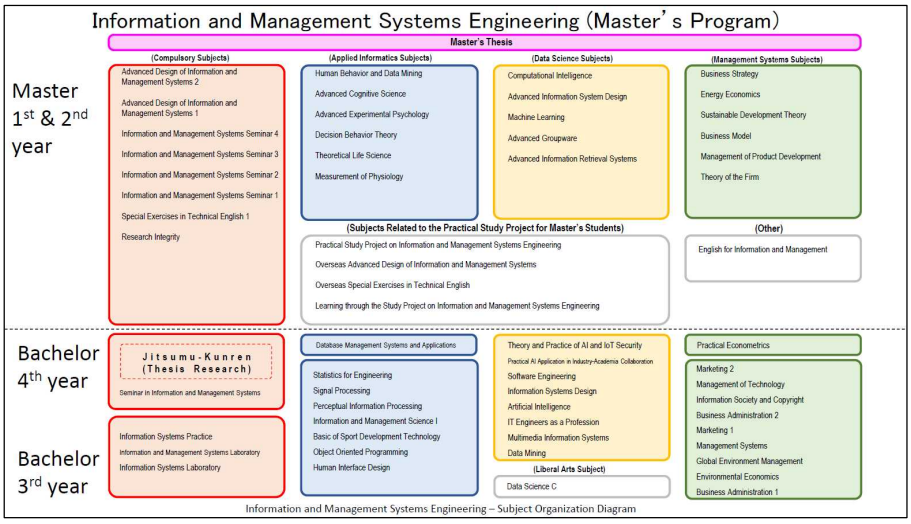
No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
Master's Program (Information and Management Systems Engineering)									
100	Major	Correspondence Table of Diploma Policy, Subjects and Master's Thesis						Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis. (New) **Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Information and Management Systems Engineering** (Old) **Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Information and Management Systems Engineering**	

(New)

	Diploma Policy			
	1. Advanced expertise	**2. Flexible conceptualization abilities in science and technology**	**3. Strategic technological development and research abilities**	**4. Global leader in science and technology**
Master's Program 1st-2nd Grade	Master's Thesis **Applies Informatics Subjects:** Measurement of Physiology, Theoretical Life Science, Service Informatics, Advanced Experimental Psychology, Kansei Media Engineering, Cognitive and Neural Modelling **Data Science Subjects (Information subject recommended to be taken):** Machine Learning, Advanced Information Retrieval Systems, Advanced Groupware, Advanced Information System Design **Management Systems Subjects:** Theory of the Firm, Business Strategy, Management of Product Development, Business Model, Sustainable Development Theory (Safety subject recommended to be taken), Energy Economics (Safety subject recommended to be taken), Practical Study Project on Information and Management Systems Engineering, Overseas Advanced Design of Information and Management Systems, Learning through the Study Project on Information and Management Systems Engineering Research Integrity	Master's Thesis Information and Management Systems Seminar 1–4, Advanced Design of Information and Management Systems 1–2, Special Exercises in Technical English 1, Practical Study Project on Information and Management Systems Engineering, Overseas Advanced Design of Information and Management Systems, Learning through the Study Project on Information and Management Systems Engineering Subjects of other majors	Master's Thesis Practical Study Project on Information and Management Systems Engineering, Overseas Advanced Design of Information and Management Systems, Learning through the Study Project on Information and Management Systems Engineering	Master's Thesis Information and Management Systems Seminar 1–4, Advanced Design of Information and Management Systems 1–2, Special Exercises in Technical English 1, English for Information and Management, Practical Study Project on Information and Management Systems Engineering, Overseas Advanced Design of Information and Management Systems, Overseas Special Exercises in Technical English, Learning through the Study Project on Information and Management Systems Engineering Research Integrity

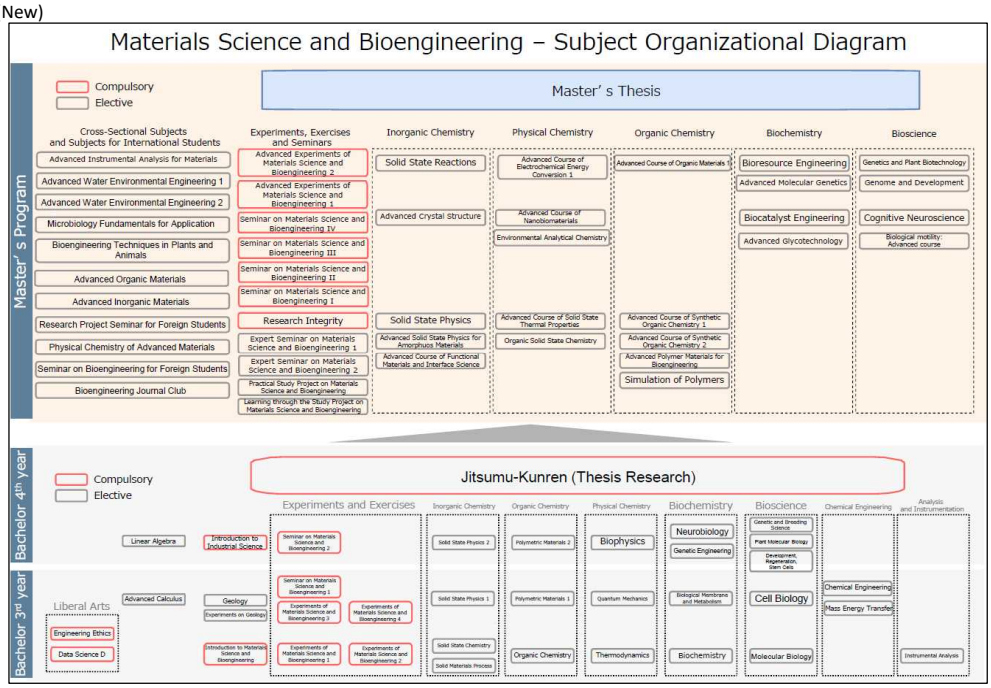
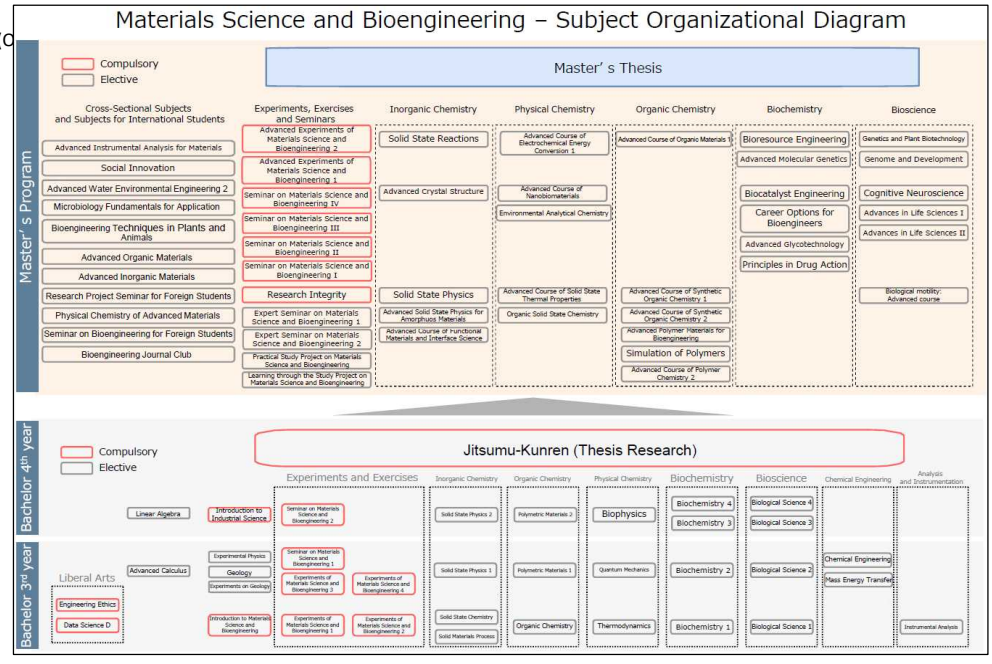
(Old)

	Diploma Policy			
	1. Advanced expertise	**2. Flexible conceptualization abilities in science and technology**	**3. Strategic technological development and research abilities**	**4. Global leader in science and technology**
Master's Program 1st-2nd Grade	Master's Thesis **Applies Informatics Subjects:** Measurement of Physiology, Theoretical Life Science, Decision Behavior Theory, Advanced Experimental Psychology, Advanced Cognitive Science, Human Behavior and Data Mining **Data Science Subjects (Information subject recommended to be taken):** Machine Learning, Advanced Information Retrieval Systems, Advanced Groupware, Advanced Information System Design, Computational Intelligence **Management Systems Subjects:** Theory of the Firm, Business Strategy, Management of Product Development, Business Model, Sustainable Development Theory (Safety subject recommended to be taken), Energy Economics (Safety subject recommended to be taken), Practical Study Project on Information and Management Systems Engineering, Overseas Advanced Design of Information and Management Systems, Learning through the Study Project on Information and Management Systems Engineering Research Integrity	Master's Thesis Information and Management Systems Seminar 1–4, Advanced Design of Information and Management Systems 1–2, Special Exercises in Technical English 1, Practical Study Project on Information and Management Systems Engineering, Overseas Advanced Design of Information and Management Systems, Learning through the Study Project on Information and Management Systems Engineering Subjects of other majors	Master's Thesis Practical Study Project on Information and Management Systems Engineering, Overseas Advanced Design of Information and Management Systems, Learning through the Study Project on Information and Management Systems Engineering	Master's Thesis Information and Management Systems Seminar 1–4, Advanced Design of Information and Management Systems 1–2, Special Exercises in Technical English 1, English for Information and Management, Practical Study Project on Information and Management Systems Engineering, Overseas Advanced Design of Information and Management Systems, Overseas Special Exercises in Technical English, Learning through the Study Project on Information and Management Systems Engineering Research Integrity

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
101	Major	Subject Organizatio n Diagram	Revise the Subject Organization Diagram. (New)  (Old)  								

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
102	Major	Elective	Theoretical Life Science	2	1・2	1	Change in Notes Column	A I→A ☐ I	N/A
103	Major	Elective	Decision Behavior Theory	2	1・2	1	Change of Subject Name Change in Notes Column	Decision Behavior Theory →Service Informatics A→A ☐ I	Students who have earned credits for Decision Behavior Theory cannot take this subject.
104	Major	Elective	Advanced Cognitive Science	2	1・2	2	Change of Subject Name Change in Notes Column	Advanced Cognitive Science →Kansei Media Engineering A→A ☐ I	Students who have earned credits for Advanced Cognitive Science cannot take this subject.
105	Major	Elective	Human Behaviour and Data Mining	2	1・2	2	Change of Subject Name Change in Notes Column	Human Behaviour and Data Mining →Cognitive and Neural Modelling A	Students who have earned credits for Human Behaviour and Data Mining cannot take this subject.
106	Major	Elective	Machine Learning	2	1・2	2	Change in Notes Column	A I→A ☐ I	N/A
107	Major	Elective	Advanced Information Retrieval Systems	2	1・2	1	Change of Term Change in Notes Column	1st Term→2nd Term A I→A ☐ I	N/A
108	Major	Elective	Computational Intelligence	2	1・2	2	Discontinuted	As shown in the left	N/A
109	Major	Elective	Management of Product Development	2	1・2	1	Not Conducted in 2026	As shown in the left	N/A
110	Major	Elective	Sustainable Development Theory	2	1・2	1	Change in Notes Column	O S→O ☐ S	N/A
111	Major	Elective	Energy Economics	2	1・2	1	Change in Notes Column	E A S→E A ☐ S	N/A
112	Major	Elective	English for Information and Management	2	1・2	2	Change in Notes Column	★→★ □	N/A

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
Master's Program (Materials Science and Bioengineering)									
113	Major	Correspondence Table of Diploma Policy, Subjects and Master's Thesis						Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis. (New) **Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Materials Science and Bioengineering** **Diploma Policy** **1. Advanced expertise** / **2. Flexible conceptualization abilities in science and technology** / **3. Strategic technological development and research abilities** / **4. Global leader in science and technology** **Master's Program 1st-2nd Grade** Master's Thesis Solid State Reactions, Advanced Crystal Structure, Solid State Physics, Advanced Solid State Physics for Amorphuos Materials, Advanced Course of Functional Materials and Interface Science, Advanced Course of Electrochemical Energy Conversion 1, Advanced Course of Nanobiomaterials, Environmental Analytical Chemistry (Safety subject recommended to be taken), Advanced Course of Solid State Thermal Properties, Organic Solid State Chemistry, Advanced Course of Organic Materials 1, Advanced Course of Synthetic Organic Chemistry 1, Advanced Course of Synthetic Organic Chemistry 2, Advanced Polymer Materials for Bioengineering, Simulation of Polymers (Information subject recommended to be taken), Bioresource Engineering, Advanced Molecular Genetics, Biocatalyst Engineering, Advanced Glycotechnology, Genetics and Plant Biotechnology, Genome and Development, Cognitive Neuroscience, Biological motility:Advanced course, Advanced Instrumental Analysis for Materials, Microbiology Fundamentals for Application、Bioengineering Techniques in Plants and Animals、Bioengineering Journal Club、Seminar on Bioengineering for Foreign Students、Research Project Seminar for Foreign Students、Advanced Water Environmental Engineering 1、Advanced Water EnvironmentalEngineering 2、Physical Chemistry of Advanced Materials、Advanced Inorganic Materials、Advanced Organic Materials, Seminar on Materials Science and Bioengineering 1~4, Expert Seminar on Materials Science and Bioengineering 1~2, Practical Study Project on Materials Science and Bioengineering, Learning through the Study Project on Materials Science and Bioengineering Research Integrity Master's Thesis Advanced Experiments of Materials Science and Bioengineering 1~2, Seminar on Materials Science and Bioengineering 1~4, Expert Seminar on Materials Science and Bioengineering 1~2, Practical Study Project on Materials Science and Bioengineering, Learning through the Study Project on Materials Science and Bioengineering Subjects of other majors Master's Thesis Seminar on Materials Science and Bioengineering 1~4, Expert Seminar on Materials Science and Bioengineering 1~2, Practical Study Project on Materials Science and Bioengineering, Learning through the Study Project on Materials Science and Bioengineering Master's Thesis Seminar on Materials Science and Bioengineering 1~4, Expert Seminar on Materials Science and Bioengineering 1~2, Practical Study Project on Materials Science and Bioengineering, Learning through the Study Project on Materials Science and Bioengineering Research Integrity (Old) **Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Materials Science and Bioengineering** **Diploma Policy** **1. Advanced expertise** / **2. Flexible conceptualization abilities in science and technology** / **3. Strategic technological development and research abilities** / **4. Global leader in science and technology** **Master's Program 1st-2nd Grade** Master's Thesis Solid State Reactions, Advanced Crystal Structure, Solid State Physics, Advanced Solid State Physics for Amorphuos Materials, Advanced Course of Functional Materials and Interface Science, Advanced Course of Electrochemical Energy Conversion 1, Advanced Course of Nanobiomaterials, Environmental Analytical Chemistry, Advanced Course of Solid State Thermal Properties, Organic Solid State Chemistry, Advanced Course of Organic Materials 1, Advanced Course of Synthetic Organic Chemistry 1, Advanced Course of Synthetic Organic Chemistry 2, Advanced Polymer Materials for Bioengineering, Simulation of Polymers (Information subject recommended to be taken), Advanced Course of Polymer Chemistry 2, Bioresource Engineering, Advanced Molecular Genetics, Biocatalyst Engineering, Career Options for Bioengineers, Advanced Glycotechnology, Principles in Drug Action (Safety subject recommended to be taken), Genetics and Plant Biotechnology, Genome and Development, Cognitive Neuroscience, Advances in Life Sciences 1, Advances in Life Sciences 2, Biological motility:Advanced course, Social Innovation, Advanced Instrumental Analysis for Materials, Microbiology Fundamentals for Application、Bioengineering Techniques in Plants and Animals、Bioengineering Journal Club、Seminar on Bioengineering for Foreign Students、Research Project Seminar for Foreign Students、Advanced Water Environmental Engineering 1、Advanced Water EnvironmentalEngineering 2、Physical Chemistry of Advanced Materials、Advanced Inorganic Materials、Advanced Organic Materials, Seminar on Materials Science and Bioengineering 1~4, Expert Seminar on Materials Science and Bioengineering 1~2, Practical Study Project on Materials Science and Bioengineering, Learning through the Study Project on Materials Science and Bioengineering Research Integrity Master's Thesis Advanced Experiments of Materials Science and Bioengineering 1~2, Seminar on Materials Science and Bioengineering 1~4, Expert Seminar on Materials Science and Bioengineering 1~2, Practical Study Project on Materials Science and Bioengineering, Learning through the Study Project on Materials Science and Bioengineering Subjects of other majors Master's Thesis Seminar on Materials Science and Bioengineering 1~4, Expert Seminar on Materials Science and Bioengineering 1~2, Practical Study Project on Materials Science and Bioengineering, Learning through the Study Project on Materials Science and Bioengineering Master's Thesis Seminar on Materials Science and Bioengineering 1~4, Expert Seminar on Materials Science and Bioengineering 1~2, Practical Study Project on Materials Science and Bioengineering, Learning through the Study Project on Materials Science and Bioengineering Research Integrity	

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
114	Major	Subject Organizatio n Diagram	Revise the Subject Organization Diagram. (New)  (O  								
115	Major	Elective	Solid State Physics	1	1・2	1	Change in Notes Column	★ K→★ □ K	N/A
116	Major	Elective	Solid State Reactions	1	1・2	2	Change in Notes Column	★ K→★ □ K	N/A
117	Major	Elective	Advanced Course of Solid State Thermal Properties	1	1・2	2	Change in Notes Column	★ K→★ □ K	N/A
118	Major	Elective	Advanced Solid State Physics for Amorphous Materials	1	1・2	2	Change in Notes Column	★ K→★ □ K	N/A
119	Major	Elective	Environmental Analytical Chemistry	2	1・2	1	Change in Notes Column	O ★ K→O ★ □ K S	N/A
120	Major	Elective	Advanced Course of Nanobiomaterials	1	1・2	2	Change in Notes Column	★ K→★ □ K	N/A
121	Major	Elective	Advanced Course of Electrochemical Energy Conversion 1	1	1・2	2	Change in Notes Column	O ★ K→O ★ □ K	N/A
122	Major	Elective	Advanced Course of Polymer Chemistry 2	1	1・2	1	Discontinuted	As shown in the left	N/A

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
123	Major	Elective	Simulation of Polymers	2	1・2	1	Change in Notes Column	O ★ I K→O ★ □ I K	N/A
124	Major	Elective	Advanced Polymer Materials for Bioengineering	2	1・2	1	Change in Notes Column	O ★ K→O ★ □ K	N/A
125	Major	Elective	Career Options for Bioengineers	1	1・2	1	Discontinuted	As shown in the left	N/A
126	Major	Elective	Social Innovation	2	1・2	2	Discontinuted	As shown in the left	N/A
127	Major	Elective	Genetics and Plant Biotechnology	2	1・2	1	Change in Notes Column	O ★ K→O ★ □ K	N/A
128	Major	Elective	Principles in Drug Action	2	1・2	1	Discontinuted	As shown in the left	N/A
129	Major	Elective	Genome and Development	2	1・2	2	Change in Notes Column	★ K→★ □ K	N/A
130	Major	Elective	Advances in Life Sciences Ⅰ	2	1・2	1	Discontinuted	As shown in the left	N/A
131	Major	Elective	Advances in Life Sciences Ⅱ	2	1・2	1	Discontinuted	As shown in the left	N/A
132	Major	Elective	Advanced Instrumental Analysis for Materials	1	1・2	1	Change in Notes Column	① ★→① ★ □	N/A
133	Major	Elective	Bioengineering Techniques in Plants and Animals	2	1・2	2	Change in Notes Column	★ ◆→★ ◆ □	N/A
134	Major	Elective	Bioengineering Journal Club	1	1・2	1	Not Conducted in 2026	As shown in the left	N/A
135	Major	Elective	Advanced Water Environmental Engineering 1	2	1・2	1	Change in Notes Column	★→E ★ □	N/A
136	Major	Elective	Advanced Water Environmental Engineering 2	2	1・2	2	Change in Notes Column	★→E ★ □	N/A
137	Major	subject figure	Revise the subject figure. (New) ○ Materials Science and Bioengineering recommends the following major subjects from other majors. **Electrical, Electronics and Information**: Statistical Signal Processing **Civil and Environmental**: Advanced Environmental Information Survey Engineering; Advanced Water and Soil Environmental Engineering (O○ Materials Science and Bioengineering recommends the following major subjects from other majors. **Mechanical Engineering**: Engineering Ultrasound **Electrical, Electronics and Information Engineering**: Advanced Course of Digital Image Processing **Information and Management Systems Engineering**: Computational Intelligence **Civil and Environmental Engineering**: Advanced Environmental Information Survey Engineering; Advanced Water and Soil Environmental Engineering						

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
Master's Program (Civil and Environmental Engineering)									
138	Major	Correspondence Table of Diploma Policy, Subjects and Master's Thesis						Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis. (New) **Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Civil and Environmental Engineering** **Diploma Policy** **1. Advanced expertise** **2. Flexible conceptualization abilities in science and technology** **3. Strategic technological development and research abilities** **4. Global leader in science and technology** **Master's Program 1st-2nd year** Master's Thesis Advanced Geotechnical Engineering 1、Advanced course of disaster management (Safety subject recommended to be taken), Advanced Hydraulics (Information subject recommended to be taken), Advanced Fluid Mechanics, Advanced Course of Dynamics of Hydrosphere Interactive with Atmosphere 1, Advanced Environmental Information Survey Engineering (Information Subject recommended to be taken), Advanced Concrete Engineering (Information Subject recommended to be taken), Advanced Road Engineering, Advanced Structural Analysis, Advanced Structural Mechanics, Supply Chain Management Analysis, Transportation Network Analysis by Big Data (Information Subject recommended to be taken), Microeconomic Modeling for Policy Analysis, Advanced Infrastructure Planning and Management, Advanced Urban Planning 1, Advanced Urban Planning 2, Advanced Water and Soil Environmental Engineering, Advanced Water Environmental Engineering 1, Advanced Environmental Protection Engineering, Advanced Water Environmental Engineering 2, Advanced Environmental Risk Management, Advanced Resource and Energy Cycles Engineering, Seminar on Civil and Environmental Engineering 1~4, Research Work of Civil and Environmental Engineering 1~2, Practical Study Project on Civil and Environmental Engineering, Learning through the Study Project on Civil and Environmental Engineering Research Integrity Master's Thesis Seminar on Civil and Environmental Engineering 1~4, Research Work of Civil and Environmental Engineering 1~2, Practical Study Project on Civil and Environmental Engineering, Learning through the Study Project on Civil and Environmental Engineering Subjects of other majors Master's Thesis Advanced Urban Planning 1, Advanced Urban Planning 2, Supply Chain Management Analysis, Seminar on Civil and Environmental Engineering 1~4, Research Work of Civil and Environmental Engineering 1~2, Practical Study Project on Civil and Environmental Engineering, Learning through the Study Project on Civil and Environmental Engineering Master's Thesis Seminar on Civil and Environmental Engineering 1~4, Research Work of Civil and Environmental Engineering 1~2, Practical Study Project on Civil and Environmental Engineering, Learning through the Study Project on Civil and Environmental Engineering Research Integrity (Old) **Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Civil and Environmental Engineering** **Diploma Policy** **1. Advanced expertise** **2. Flexible conceptualization abilities in science and technology** **3. Strategic technological development and research abilities** **4. Global leader in science and technology** **Master's Program 1st-2nd year** Master's Thesis Advanced Geotechnical Engineering 1、Advanced course of disaster management (Safety subject recommended to be taken), Advanced Hydraulics (Information subject recommended to be taken), Advanced Fluid Mechanics, Advanced Course of Dynamics of Hydrosphere Interactive with Atmosphere 1, Advanced Topics on Atmospheric and Hydrospheric Sciences 2, Advanced Environmental Information Survey Engineering (Information Subject recommended to be taken), Advanced Concrete Engineering (Information Subject recommended to be taken), Advanced Road Engineering, Advanced Structural Analysis, Supply Chain Management Analysis、Transportation Network Analysis by Big Data (Information Subject recommended to be taken), Microeconomic Modeling for Policy Analysis, Advanced Infrastructure Planning and Management, Advanced Urban Planning 1, Advanced Urban Planning 2, Advanced Water and Soil Environmental Engineering, Advanced Water Environmental Engineering 1, Advanced Environmental Protection Engineering, Advanced Water Environmental Engineering 2, Advanced Environmental Risk Management, Advanced Resource and Energy Cycles Engineering, Seminar on Civil and Environmental Engineering 1~4, Research Work of Civil and Environmental Engineering 1~2, Practical Study Project on Civil and Environmental Engineering, Learning through the Study Project on Civil and Environmental Engineering Research Integrity Master's Thesis Seminar on Civil and Environmental Engineering 1~4, Research Work of Civil and Environmental Engineering 1~2, Practical Study Project on Civil and Environmental Engineering, Learning through the Study Project on Civil and Environmental Engineering Subjects of other majors Master's Thesis Advanced Urban Planning 1, Advanced Urban Planning 2, Supply Chain Management Analysis, Seminar on Civil and Environmental Engineering 1~4, Research Work of Civil and Environmental Engineering 1~2, Practical Study Project on Civil and Environmental Engineering, Learning through the Study Project on Civil and Environmental Engineering Master's Thesis Seminar on Civil and Environmental Engineering 1~4, Research Work of Civil and Environmental Engineering 1~2, Practical Study Project on Civil and Environmental Engineering, Learning through the Study Project on Civil and Environmental Engineering Research Integrity	

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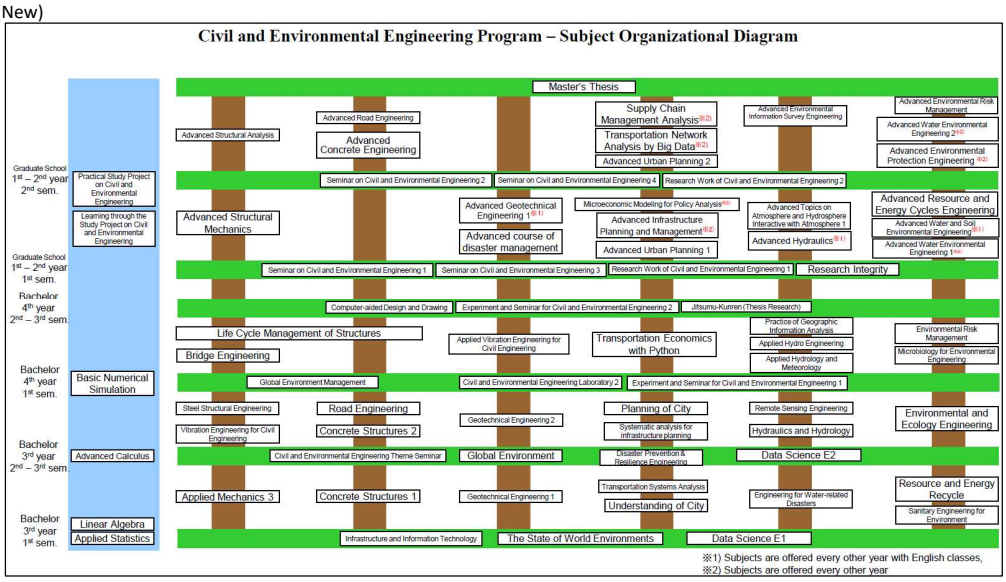
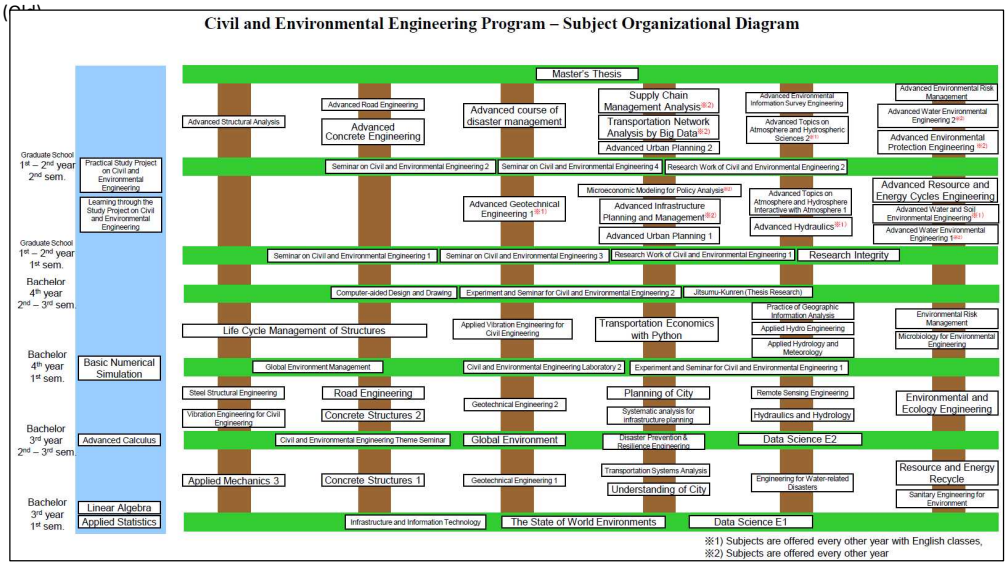
139	Major	Subject Organizatio n Diagram	Revise the Subject Organization Diagram. (New)  (Old)  								
140	Major	Elective	Advanced Geotechnical Engineering 1	2	1・2	1	Change in Notes Column	O ☆ K→O ☆ ☐ K	N/A
141	Major	Elective	Advanced course of disaster management	2	1・2	1	Change of Term Change in Notes Column	2nd Term→1st Term ★ K S→★ ☐ K S	Students who have earned credits for Advanced course of disaster management before 2025 or Advanced Seismic Safety Engineering and Community Disaster Management cannot take this subject.
142	Major	Elective	Advanced Hydraulics	2	1・2	1	Change in Notes Column	O ★ I K→O ★ ☐ I K	N/A
143	Major	Elective	Advanced Fluid Mechanics	2	1・2	1	Change in Notes Column	E ☆ ◆ K→E ☆ ◆ ☐ K	N/A
144	Major	Elective	Advanced Topics on Atmospheric and Hydrospheric Sciences 2	2	1・2	2	Discontinuted	As shown in the left	N/A
145	Major	Elective	Advanced Environmental Information Survey Engineering	2	1・2	2	Change in Notes Column	★ I K→★ ☐ I K	N/A
146	Major	Elective	Advanced Concrete Engineering	2	1・2	2	Change in Notes Column	☆ I K→☆ ☐ I K	N/A
147	Major	Elective	Advanced Road Engineering	2	1・2	2	Change in Notes Column	★ K→☆ ☐ K	N/A

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
148	Major	Elective	Advanced Structural Mechanics	2	1・2	1	Newly-Established	Hayashi ★	Students who enrolled in and before AY 2025 can take this subject.
149	Major	Elective	Advanced Structural Analysis	2	1・2	2	Change in Notes Column	★ K→★ ☐ K	N/A
150	Major	Elective	Supply Chain Management Analysis	2	1・2	2	Change in Notes Column	O ☆ K→O ☆ ☐ K	N/A
151	Major	Elective	Transportation Network Analysis by Big Data	2	1・2	2	Change in Notes Column	E ☆ I K→E ☆ ☐ I K	N/A
152	Major	Elective	Microeconomic Modeling for Policy Analysis	2	1・2	1	Change in Notes Column	O ☆ K→O ☆ ☐ K	N/A
153	Major	Elective	Advanced Infrastructure Planning and Management	2	1・2	1	Change in Notes Column	E ☆ K→E ☆ ☐ K	N/A
154	Major	Elective	Advanced Water and Soil Environmental Engineering	2	1・2	1	Change in Notes Column	O ★ K→O ★ ☐ K	N/A
155	Major	Elective	Advanced Water Environmental Engineering 1	2	1・2	1	Change in Notes Column	E ☆ K→E ☆ ☐ K	N/A
156	Major	Elective	Advanced Environmental Protection Engineering	2	1・2	1	Change in Notes Column	O ☆ K→O ☆ ☐ K	N/A
157	Major	Elective	Advanced Water Environmental Engineering 2	2	1・2	1	Change in Notes Column	E ☆ K→E ☆ ☐ K	N/A
158	Major	Elective	Advanced Environmental Risk Management	1	1・2	1	Change in Notes Column Not Conducted in 2026	★ K→★ ☐ K	N/A
159	Major	Elective	Advanced Resource and Energy Cycles Engineering	1	1・2	1	Change in Notes Column	★ K→★ ☐ K	N/A

<table>
<tr><th>No.</th><th>Classification
区分</th><th>Compulsory /Elective必修選択</th><th>Subject Name科目名</th><th>Credits単位</th><th>Year開講年</th><th>Term期間</th><th>Revisions改定区分</th><th>Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容</th><th>Measures to students在学生の対応</th></tr>
<tr><td>160</td><td>Major</td><td>Subjects Cannot be Taken Toghther</td><td colspan="7">Revise the subjects cannot be taken together.

(New)
○ Students who have earned credits for either the following subjects conducted before 2025 are cannot take "Advanced Course of Disaster Management" conducted after 2026.
・"Advanced Course of Disaster Management" or "Advanced Seismic Safety Engineering and Community Disaster Management" (Nuclear Technology)

(Old)
○ Due to content overlap, the following subjects cannot be taken together:
・"Advanced Course of Disaster Management" and "Advanced Seismic Safety Engineering and Community Disaster Management" (Nuclear Technology)</td></tr>
<tr><td>161</td><td>Major</td><td>subject figure</td><td colspan="7">Revise the subject figure.

(New)
○ Civil and Environmental Engineering recommends the following major subjects from other majors.
<table>
<tr><th colspan="2">Mechanical Engineering</th><th>Electrical, Electronics and Information Engineering</th></tr>
<tr><td>Fracture Mechanics</td><td>Advanced Course for Non-Newton Fluid</td><td>Statistical Signal Processing</td></tr>
<tr><td>Advanced Course for Microstructure of Materials</td><td>Advanced Compressible Fluid Dynamics</td><td></td></tr>
<tr><td>Advanced Lecture on Solid State Physics</td><td>Tribology</td><td></td></tr>
<tr><td>Advanced Automation</td><td></td><td></td></tr>
</table>

(Old)
○ Civil and Environmental Engineering recommends the following major subjects from other majors.
<table>
<tr><th colspan="2">Mechanical Engineering</th><th>Electrical, Electronics and Information Engineering</th><th>Materials Science and Technology</th></tr>
<tr><td>Fracture Mechanics</td><td>Advanced Course for Non-Newton Fluid</td><td></td><td></td></tr>
<tr><td>Advanced Course for Microstructure of Materials</td><td>Advanced Compressible Fluid Dynamics</td><td>Advanced Course of Digital Image Processing</td><td></td></tr>
<tr><td>Advanced Lecture on Solid State Physics</td><td>Tribology</td><td></td><td></td></tr>
<tr><td>Advanced Automation</td><td>Advanced Construction Machinery Engineering</td><td></td><td></td></tr>
<tr><td></td><td>Engineering Ultrasound</td><td></td><td></td></tr>
</table></td></tr>
</table>

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
Master's Program (Nuclear Technology)									
162	Major	Subject Organization						Revise the Subject Organization. (New) Nuclear technology involves the application of safety technology and safety management to fundamental nuclear technologies, and is centered on ensuring safety for each target device. The subjects in this major include both compulsory subjects and elective subjects, which are divided into 3 main categories: 1) Advanced Radiation Engineering, 2) Nuclear System Engineering, and 3)Nuclear Safety Engineering. To complete this major, students must adhere to the subject requirements established for the entire Master's Program in Engineering, and fulfill all of the following criteria. (1) Acquire a total of 8 credits from compulsory subjects. (2) Acquire 16 or more credits from a balanced selection of elective subjects (4 or more credits from each of the following elective subject groups listed in the attached table: Advanced Radiation Engineering, Nuclear System Engineering, and Nuclear Safety Engineering). (From a combination of items (1) and (2), students must acquire 24 or more credits from the subjects offered in this major.) (3) Acquire 6 or more credits from common subjects. (4) Acquire a total of 30 or more credits from a combination of items (1) to (3). Seminars are required in four subjects, and students must generally take them in numerical order (September entrants begin with Seminar I in the second semester). Students may generally take only one seminar per semester. (Old) Nuclear technology involves the application of safety technology and safety management to fundamental nuclear technologies, and is centered on ensuring safety for each target device. The subjects in this major include both compulsory subjects and elective subjects, which are divided into 3 main categories: 1) Advanced Radiation Engineering, 2) Nuclear System Engineering, and 3)Nuclear Safety Engineering. Students must acquire a total of 30 credits or more, including 8 credits from compulsory subjects. Students must also take subjects from the 3 elective subject types (4 credits or more from each of the categories) and acquire 6 credits or more from the Common Subjects.	
163	Major	Research Work and Master's Thesis						Revise the Research Work and Master's Thesis. (New) Students must undergo practical training for a minimum of 2 weeks outside of NUT (either domestic or overseas) during the 1 or 2 years where they are enrolled. Students are encouraged to present their master's research content at scientific meetings and conferences in their field of study while they are enrolled at NUT. In particular, it is recommended that they improve their communication skills and foreign language skills by learning to explain their work to researchers from other countries. (Old) Students must undergo practical training for a minimum of 2 weeks outside of NUT (either domestic or overseas) during the 1 or 2 years where they are enrolled; they will make a report during the Nuclear Safety Practical held in the final term (third term for those intending to complete the program in that term) of the second year. Students are encouraged to present their master's research content at scientific meetings and conferences in their field of study while they are enrolled at NUT. In particular, it is recommended that they improve their communication skills and foreign language skills by learning to explain their work to researchers from other countries.	

<table>
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<tr><td>164</td><td>Major</td><td>Correspondence Table of Diploma Policy, Subjects and Master's Thesis</td><td colspan="7">Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis.
(New)
Correspondence Table of Diploma Policy, Subjects and Master's Thesis in Nuclear Technology
<table>
<tr><th></th><th colspan="4">Diploma Policy</th></tr>
<tr><th></th><th>1. Advanced expertise</th><th>2. Flexible conceptualization abilities in science and technology</th><th>3. Strategic technological development and research abilities</th><th>4. Global leader in science and technology</th></tr>
<tr><td>Master's Program
1st-2nd year</td><td>Master's Thesis
Basics of Nuclear Technology, Nuclear Technology Laboratory
Advanced Radiation Engineering:
Nuclear Fusion Systems, Advanced Instrumental Analysis for Materials, Advanced Engineering for Radiation Safety and Detection, Advanced Engineering on Radiation Physics, Computational Science (Information subject recommended to be taken), Environmental Radioactivity and Biological Impact
Nuclear System Engineering:
Advanced Lecture on Nuclear and Radiochemistry, Nuclear Reactor Engineering, Nuclear Materials and Fuels, Nuclear Fuel Cycle Engineering, Nuclear Reactor Design
Nuclear Safety Engineering:
Nuclear Power Reactor and Plant Systems (Safety subject recommended to be taken), Nuclear Power Plant Engineering (Safety subject recommended to be taken), Advanced Safety and Crisis Management (Safety subject recommended to be taken), Nuclear Regulation and Safety Management (Safety subject recommended to be taken), Advanced Road Engineering, Nuclear Emergency Planning and Resilience Engineering (Safety subject recommended to be taken)

Practice and Training through the Study Project on Nuclear System Safety Engineering, Learning through the Study Project on Quantum Science and Radiation, Learning through the Study Project on Nuclear Technology, Learning through the Study Project on Advanced Energy Engineering Research Integrity</td><td>Master's Thesis
Seminar on Nuclear Technology1~4, Nuclear Technology Practical, Practice and Training through the Study Project on Nuclear System Safety Engineering, Learning through the Study Project on Quantum Science and Radiation, Learning through the Study Project on Nuclear Technology, Learning through the Study Project on Advanced Energy
Subjects of other majors</td><td>Master's Thesis
Special Exercises in Technical English 1~2, Seminar on Nuclear Technology1~4, Nuclear Technology Laboratory, Nuclear Technology Practical, Practice and Training through the Study Project on Nuclear System Safety Engineering, Learning through the Study Project on Quantum Science and Radiation, Learning through the Study Project on Nuclear Technology, Learning through the Study Project on Advanced Energy</td><td>Master's Thesis
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<tr><td>Master's Program
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Advanced Radiation Engineering:
Nuclear Fusion Systems, Advanced Instrumental Analysis for Materials, Advanced Engineering for Radiation Safety and Detection, Advanced Engineering on Radiation Physics, Computational Science (Information subject recommended to be taken), Environmental Radioactivity and Biological Impact
Nuclear System Engineering:
Advanced Lecture on Nuclear and Radiochemistry, Reactor Physics and Kinetics, Nuclear Materials and Fuels, Nuclear Fuel Cycle Engineering, Nuclear Reactor Design
Nuclear Safety Engineering:
Nuclear Power Reactor and Plant Systems (Safety subject recommended to be taken), Advanced Safety and Crisis Management (Safety subject recommended to be taken), Advanced Lecture on Nuclear Regulation (Safety subject recommended to be taken), Advanced Seismic Safety Engineering and Community Disaster Management (Safety subject recommended to be taken), Nuclear Emergency Planning and Resilience Engineering (Safety subject recommended to be taken)

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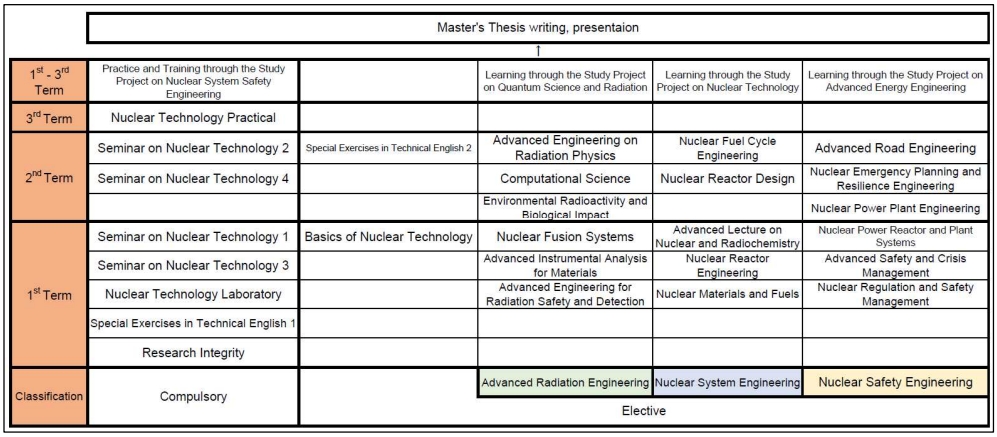
Subjects of other majors</td><td>Master's Thesis
Special Exercises in Technical English 1~2, Seminar on Nuclear Technology1~4, Nuclear Technology Laboratory, Nuclear Technology Practical, Practice and Training through the Study Project on Nuclear System Safety Engineering, Learning through the Study Project on Quantum Science and Radiation, Learning through the Study Project on Nuclear Technology, Learning through the Study Project on Advanced Energy</td><td>Master's Thesis
Special Exercises in Technical English 1~2, Seminar on Nuclear Technology1~4, Nuclear Technology Laboratory, Practice and Training through the Study Project on Nuclear System Safety Engineering, Learning through the Study Project on Quantum Science and Radiation, Learning through the Study Project on Nuclear Technology, Learning through the Study Project on Advanced Energy
Research Integrity</td></tr>
</table></td></tr>
</table>

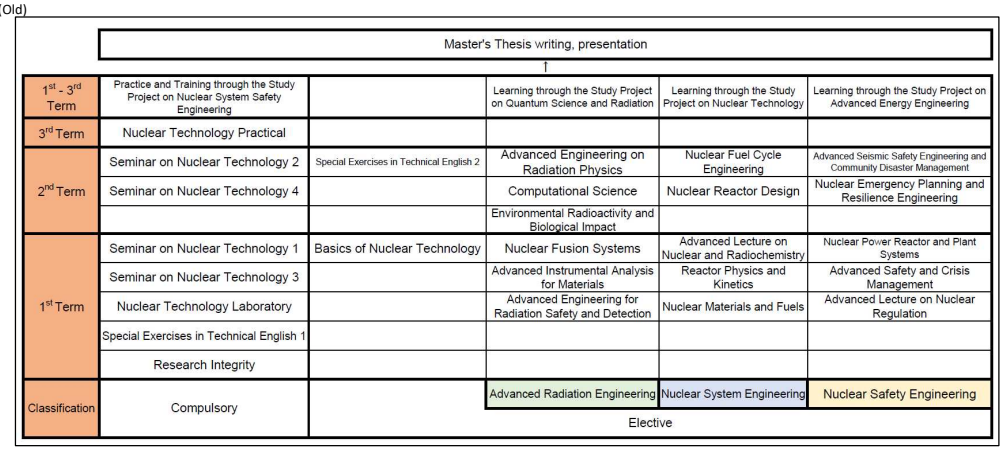
No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
165	Major	Subject Organization Diagram							

Revise the Subject Organization Diagram.

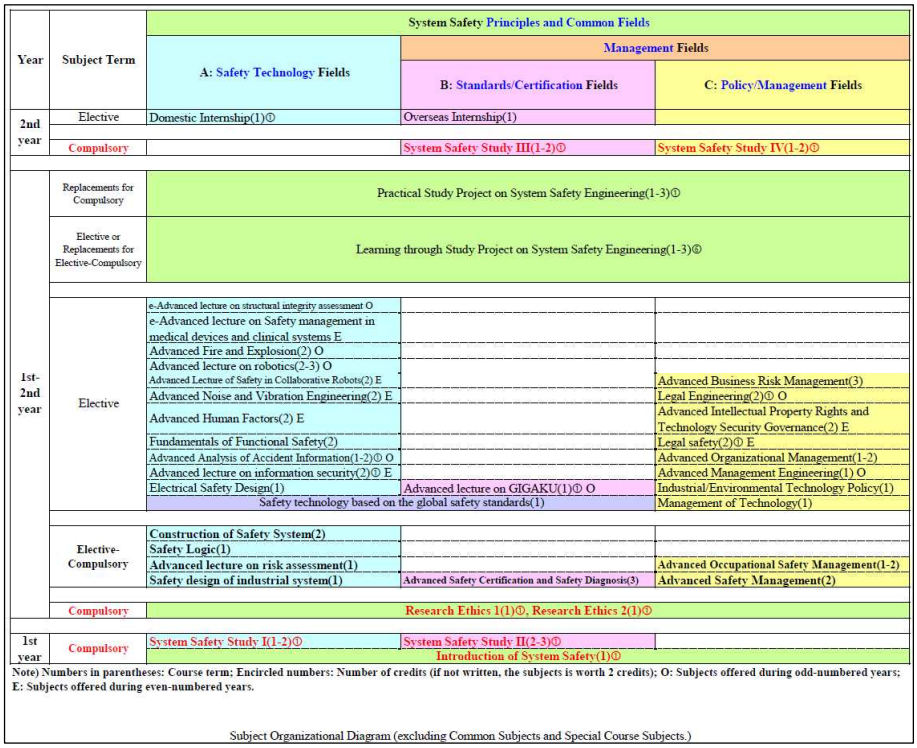
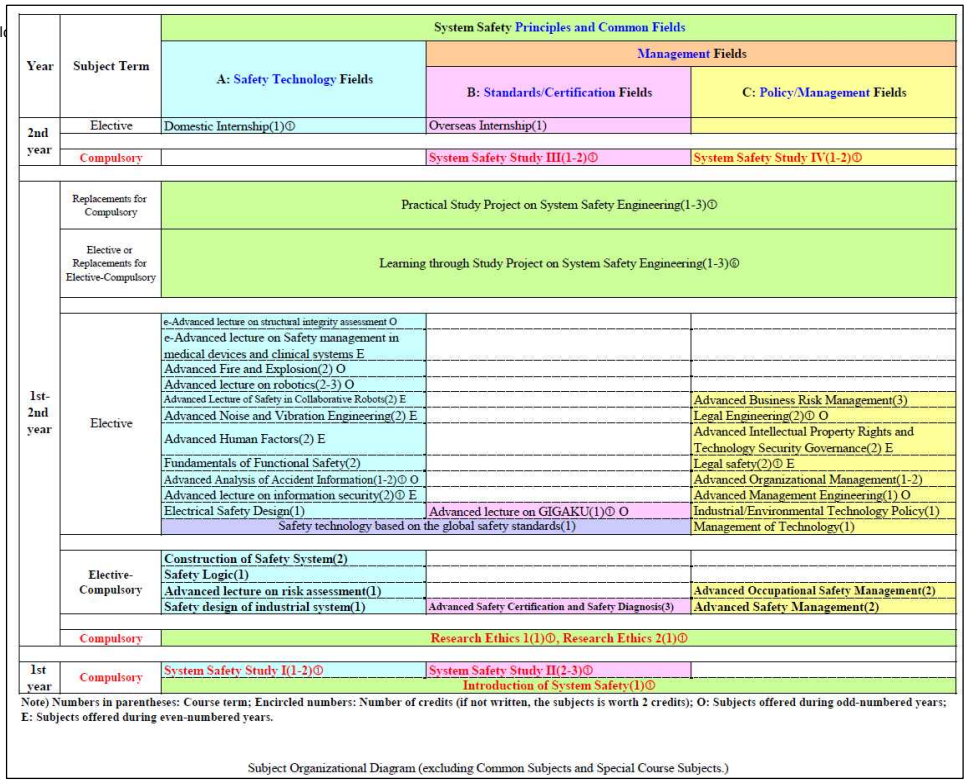
(New)



(Old)



No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
166	Major	curriculum table	Add a description of the "☆" mark to the curricular chart.						
167	Major	Elective	Nuclear Fusion Systems	2	1・2	1	Change in Notes Column	★ K→★ ☐ K	N/A
168	Major	Elective	Advanced Instrumental Analysis for Materials	1	1・2	1	Change in Notes Column	① ★→① ★ ☐	N/A
169	Major	Elective	Advanced Engineering for Radiation Safety and Detection	1	1・2	1	Change in Notes Column Not Conducted in 2026	★→★ ☐	N/A
170	Major	Elective	Computational Science	2	1・2	2	Change in Notes Column	E I ★ K→E I ★ ☐ K	N/A
171	Major	Elective	Advanced Lecture on Nuclear and Radiochemistry	2	1・2	2	Change in Notes Column	★ K→★ ☐ K	N/A
172	Major	Elective	Reactor Physics and Kinetics	2	1・2	1	Change of Subject Name Change in Notes Column	Reactor Physics and Kinetics →Nuclear Reactor Engineering ★ K→★ ☐ K	Students who have earned credits for Reactor Physics and Kinetics cannot take this subject.
173	Major	Elective	Nuclear Materials and Fuels	2	1・2	1	Change in Notes Column	★→★ □	N/A
174	Major	Elective	Nuclear Fuel Cycle Engineering	2	1・2	2	Change in Notes Column	★ K→★ ☐ K	N/A
175	Major	Elective	Nuclear Reactor Design	2	1・2	2	Change in Notes Column	① ★→① ★ ☐	N/A
176	Major	Elective	Structural Engineering in Nuclear Reactors	1	1・2	2	Discontinuted	As shown in the left	N/A
177	Major	Elective	Thermal Hydraulics in Nuclear Reactors	1	1・2	2	Discontinuted	As shown in the left	N/A
178	Major	Elective	Nuclear Power Reactor and Plant Systems	2	1・2	1	Change in Notes Column	Students who have earned credits for Nuclear Power Plant Engineering cannot take this subject.	As shown in the left
179	Major	Elective	Nuclear Power Plant Engineering	2	1・2	2	Newly-Established	Takezawa ☆ E S	Students who enrolled in and before AY 2025 can take this subject. Students who have earned credits for Nuclear Power Reactor and Plant Systems cannot take this subject.
180	Major	Elective	Advanced Lecture on Nuclear Regulation	2	1・2	1	Change of Subject Name Change in Notes Column	Advanced Lecture on Nuclear Regulation →Nuclear Regulation and Safety Management ★ S→★ ☐ S	Students who have earned credits for Advanced Lecture on Nuclear Regulation cannot take this subject.
181	Major	Elective	Advanced Road Engineering	2	1・2	2	Newly-Established	Takehashi(O) ☆ ☐ K	Students who enrolled in and before AY 2025 can take this subject.
182	Major	Elective	Advanced Seismic Safety Engineering and Community Disaster Management	2	1・2	2	Discontinuted	As shown in the left	N/A
183	Major	Recommended to take the subjects from other majors	Revise the Recommended to take the subjects from other majors. (New) ○ Students in the Nuclear Technology are recommended to take the following subjects from other majors. ・Advanced Combustion (Mechanical Engineering) ・Advanced Study for Plasma Diagnostics (Electrical, Electronics and Information Engineering) ・Advanced Resource and Energy Cycles Engineering (Civil and Environmental Engineering) ・Advanced Course of Disaster Management (Civil and Environmental Engineering) (Old) ○ Students in the Nuclear Technology are recommended to take the following subjects from other majors. ・Advanced Thermal Engineering (Mechanical Engineering) ・Advanced Study for Plasma Diagnostics (Electrical, Electronics and Information Engineering) ・Advanced Resource and Energy Cycles Engineering (Civil and Environmental Engineering)						
184	Major	Subjects Cannot be Taken Toghther	Revise the subjects cannot be taken together. (New) ○ Due to content overlap, the following subjects cannot be taken together: ・"Advanced Engineering on Radiation Physics" and "Advanced Engineering on Electromagnetic Energy" (Electrical, Electronics and Information Engineering) ・"Nuclear Reactor Engineering" and "Reactor Physics and Kinetics" (Conducted before 2025) ・"Nuclear Power Reactor and Plant Systems" and "Nuclear Power Plant Engineering" ・"Nuclear Regulations and Safety Management" and "Advanced Lecture on Nuclear Regulations" (Conducted before 2025) (Old) ○ Due to content overlap, the following subjects cannot be taken together: ・"Advanced Engineering on Radiation Physics" and "Advanced Engineering on Electromagnetic Energy" (Electrical, Electronics and Information Engineering) ・"Advanced Seismic Safety Engineering and Community Disaster Management" and "Advanced Course of Disaster Management" (Civil and Environmental Engineering)						

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
Master's Program (System Safety Engineering)									
185	Major	Subject Organizatio n Diagram						Revise the Subject Organization Diagram. (New)  Subject Organizational Diagram (excluding Common Subjects and Special Course Subjects.) (Old)  Subject Organizational Diagram (excluding Common Subjects and Special Course Subjects.)	

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
186	Major	Elective	Advanced Occupational Safety Management	2	1・2	2	Change of Term	2nd Term→1st & 2nd Term	N/A
187	Major	Elective	Construction of Safety System	2	1・2	2	Change in Notes Column	★→★ □	N/A
188	Major	Elective	Advanced Analysis of Accident Information	1	1・2	1・2	Change in Notes Column	O I ★→O I ★ ☐	N/A
189	Major	Elective	Advanced lecture on structural integrity assessment	2	1・2	1～3	Change in Notes Column	e-learning O ★ →e-learning O ★ □	N/A
190	Major	Elective	Advanced lecture on Safety management in medical devices and clinical systems	2	1・2	1～3	Change in Notes Column	e-learning E ★ →e-learning E ★ ☐	N/A
Master's Program (Common Subject)									
191	Common	Correspondence Table of Diploma Policy, Subjects and Master's Thesis	Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis. (New) **Correspondence Table of Diploma Policy and Subjects in Common Subjects and Special Subjects for International Students** (Old) **Correspondence Table of Diploma Policy and Subjects in Common Subjects and Special Subjects for International Students**						
192	Common	Elective	Theory of Mathematical Analysis	2	1・2	1	Change in Notes Column	K Information→K ☐ Information	N/A
193	Common	Elective	Sports Bio-mechanics	2	1・2	1	Change in Notes Column	☐	N/A
194	Common	Elective	Introduction of Cognitive Science	2	1・2	1	Change in Notes Column	☐	N/A
195	Common	Elective	Language and Thought	2	1・2	2	Change in Notes Column	☐	N/A
196	Common	Elective	Advanced Psychology	2	1・2	2	Change of Term Change in Notes Column	2nd Term→1st Term ☐	N/A
197	Common	Elective	Science and Technology in Modern Society	2	1・2	1	Change in Notes Column	☐	N/A
198	Common	Elective	Energy and Economy in Japan	2	1・2	1	Discontinuted	As shown in the left	N/A
199	Common	Elective	Decarbonized System	2	1・2	1	Newly-Established	Li ☐ Economics and Management	Students who enrolled in and before AY 2025 can take this subject.
200	Common	Elective	Gigaku Innovation and Creativity	2	1・2	1	Change in Notes Column	☆→☆ □	N/A
201	Common	Elective	Technological English	2	1・2	2	Change in Notes Column	★→★ □	N/A
202	Common	Elective	Fundamental English for Graduate Students	2	1・2	2	Change in Notes Column	① ★→① ★ □	N/A
203	Common	Elective	Language and Understanding of Other Cultures	2	1・2	1	Change in Notes Column	☐	N/A

Correspondence Table of Diploma Policy and Subjects in Common Subjects and Special Subjects for International Students

	Diploma Policy			
	2. Flexible conceptualization abilities in science and technology	3. Strategic technological development and research abilities	4. Global leader in science and technology	
	Common Subjects			Special Subjects for International Students
Master's Program 1st-2nd year	Modern Mathematics, Theory of Mathematical Analysis, Sports Bio-mechanics, Social Welfare, Introduction of Cognitive Science, Language and Thought, Advanced Psychology	Advanced Safety Engineering, Advanced Safety and Information Security 1 & 2, Science and Technology in Modern Society, Decarbonization System, Advanced Business Management, Practical Work on Venture Flotation Training 1, Practice of Idea Prototyping, Japanese Industrial Development and SDGs, Gigaku Innovation and Creativity, An outline of Intellectual Property, Theory of Solving Regional Issues Overseas, Introduction to the SDG Practice	Technological English, English for Science and Technology, English For Academic Purposes, Analytical Reasoning and Presentation, Professional Discourse and Presentation, Fundamental English for Graduate Students, English Presentation Skills, Language and Understanding of Other Cultures, Cross-cultural Mapping: Developing Your Cultural Awareness, Character's in Modern Japanese Literature, Chinese Thought and Society, Social Skills Considering from Diversity, Role of Creativity and Leadership Development in Enterprise and Business, International Relations, Theory of Solving Regional Issues Overseas, Introduction to the SDG Practice	Japanese for Graduate Students 1-1 & 1-2, Japanese for Graduate Students 2-1 & 2-2, Japanese for Graduate Students 3-1 & 3-2, General Affairs of Japan for Graduate Students 1-1 & 1-2

Correspondence Table of Diploma Policy and Subjects in Common Subjects and Special Subjects for International Students

	Diploma Policy			
	2. Flexible conceptualization abilities in science and technology	3. Strategic technological development and research abilities	4. Global leader in science and technology	
	Common Subjects			Special Subjects for International Students
Master's Program 1st-2nd year	Modern Mathematics, Theory of Mathematical Analysis, Sports Bio-mechanics, Social Welfare, Introduction of Cognitive Science, Language and Thought, Advanced Psychology	Advanced Safety Engineering, Advanced Safety and Information Security 1 & 2, Science and Technology in Modern Society, Energy and Economy in Japan, Advanced Business Management, Practical Work on Venture Flotation Training 1, Practice of Idea Prototyping, Japanese Industrial Development and SDGs, Gigaku Innovation and Creativity, An outline of Intellectual Property, SDGs -recognizing limitations and challenges-, Introduction to the SDG Practice	Technological English, English for Science and Technology, English For Academic Purposes, Analytical Reasoning and Presentation, Professional Discourse and Presentation, Fundamental English for Graduate Students, English Presentation Skills, Language and Understanding of Other Cultures, Cross-cultural Mapping: Developing Your Cultural Awareness, Character's in Modern Japanese Literature, Social Skills Considering from Diversity, Role of Creativity and Leadership Development in Enterprise and Business, International Relations, SDGs -recognizing limitations and challenges, Introduction to the SDG Practice	Japanese for Graduate Students 1-1 & 1-2, Japanese for Graduate Students 2-1 & 2-2, Japanese for Graduate Students 3-1 & 3-2, General Affairs of Japan for Graduate Students 1-1 & 1-2

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
204	Common	Elective	Chinese Thought and Society	2	1・2	1	Newly-Established	Hasegawa	Students who enrolled in and before AY 2025 can take this subject.
205	Common	Elective	Cross-cultural Mapping: Developing Your Cultural Awareness	2	1・2	1～3	Change in Notes Column	☐	N/A
206	Common	Elective	Social Skills Considering from Diversity	2	1・2	1	Change in Notes Column	☐	N/A
207	Common	Elective	SDGs -recognizing limitations and challenges-	2	1・2	2	Change of Subject Name	SDGs -recognizing limitations and challenges- →Theory of Solving Regional Issues Overseas	Students who have earned credits for SDGs -recognizing limitations and challenges- cannot take this subject.

<table>
<tr><th>No.</th><th>Classification
区分</th><th>Compulsory /Elective必修選択</th><th>Subject Name科目名</th><th>Credits単位</th><th>Year開講年</th><th>Term期間</th><th>Revisions改定区分</th><th>Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容</th><th>Measures to students在学生の対応</th></tr>
<tr><td colspan="10">Doctoral Program (Energy Engineering)</td></tr>
<tr><td>208</td><td>Major</td><td>Elective</td><td>Advanced Superconducting Material Engineering</td><td>2</td><td>1・2</td><td>2</td><td>Not Conducted in 2026</td><td>As shown in the left</td><td>N/A</td></tr>
<tr><td colspan="10">Doctoral Program (Information Science and Control Engineering)</td></tr>
<tr><td>209</td><td>Common</td><td>Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation</td><td colspan="7">Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis.
(New)
Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Information Science and Control Engineering
<table><tr><th></th><th colspan="4">Diploma Policy</th></tr><tr><th></th><th>1. Research implementation abilities</th><th>2. Ability to pioneer unexplored areas</th><th>3. Giving back to society through research findings</th><th>4. Leadership to guide research and development</th></tr><tr><td>Doctoral Program
1st-3rd Grade</td><td>Doctoral Dissertation
Information Science and Control Engineering 1 & 2
Advanced Computer Science, Advanced Finite Element Analysis, Nonlinear System Design, Advanced Information Circuit Engineering, Advanced Nonlinear Optics, Advanced Signal and Image Processing, Advanced Topics in Control Systems Engineering, Feedforward Control Theory, Advanced Data Management, Advanced Precision Machining, Advanced Design of Machine Elements, Advanced Dynamical Systems Engineering, Informatics for Human Society and Industry, Advanced Social Informatics, Information and Mathematical Science for Engineering, Advanced Biomedical Engineering, Neuroimaging and Biosignal Processing, Advanced course for Machine and Motor Control, Advanced Living System, Advanced Data Science and Management, Sports physiology and engineering, Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Information Science and Control Engineering 1 & 2
Advanced Computer Science, Advanced Finite Element Analysis, Nonlinear System Design, Advanced Information Circuit Engineering, Advanced Nonlinear Optics, Advanced Signal and Image Processing, Advanced Topics in Control Systems Engineering, Feedforward Control Theory, Advanced Data Management, Advanced Precision Machining, Advanced Design of Machine Elements, Advanced Dynamical Systems Engineering, Informatics for Human Society and Industry, Advanced Social Informatics, Information and Mathematical Science for Engineering, Advanced Biomedical Engineering, Neuroimaging and Biosignal Processing, Advanced course for Machine and Motor Control, Advanced Living System, Advanced Data Science and Management, Sports physiology and engineering, Practical work for project leader education</td><td>Doctoral Dissertation
Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Practical work for project leader education
Researcher Ethics</td></tr></table>
(Old)
Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Information Science and Control Engineering
<table><tr><th></th><th colspan="4">Diploma Policy</th></tr><tr><th></th><th>1. Research implementation abilities</th><th>2. Ability to pioneer unexplored areas</th><th>3. Giving back to society through research findings</th><th>4. Leadership to guide research and development</th></tr><tr><td>Doctoral Program
1st-3rd Grade</td><td>Doctoral Dissertation
Information Science and Control Engineering 1 & 2
Advanced Computer Science, Advanced Finite Element Analysis, Nonlinear System Design, Advanced Information Circuit Engineering, Advanced Nonlinear Optics, Advanced Signal and Image Processing, Advanced Super-precision Instrumentation, Advanced Topics in Control Systems Engineering, Feedforward Control Theory, Advanced Data Management, Advanced Precision Machining, Advanced Design of Machine Elements, Advanced Machine - Environment Design Engineering, Informatics for Human Society and Industry, Advanced Social Informatics, Information and Mathematical Science for Engineering, Advanced Biomedical Engineering, Neuroimaging and Biosignal Processing, Advanced course for Machine and Motor Control, Advanced Living System, Advanced Data Science and Management, Sports physiology and engineering, Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Information Science and Control Engineering 1 & 2
Advanced Computer Science, Advanced Finite Element Analysis, Nonlinear System Design, Advanced Information Circuit Engineering, Advanced Nonlinear Optics, Advanced Signal and Image Processing, Advanced Super-precision Instrumentation, Advanced Topics in Control Systems Engineering, Feedforward Control Theory, Advanced Data Management, Advanced Precision Machining, Advanced Design of Machine Elements, Advanced Machine - Environment Design Engineering, Informatics for Human Society and Industry, Advanced Social Informatics, Information and Mathematical Science for Engineering, Advanced Biomedical Engineering, Neuroimaging and Biosignal Processing, Advanced course for Machine and Motor Control, Advanced Living System, Advanced Data Science and Management, Sports physiology and engineering, Practical work for project leader education</td><td>Doctoral Dissertation
Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Practical work for project leader education
Researcher Ethics</td></tr></table></td></tr>
<tr><td>210</td><td>Major</td><td>curriculum table</td><td colspan="7">Add a description of the "E" mark to the curricular chart.</td></tr>
<tr><td>211</td><td>Major</td><td>Elective</td><td>Advanced Super-precision Instrumentation</td><td>2</td><td>1～3</td><td>1</td><td>Discontinuted</td><td></td><td>N/A</td></tr>
<tr><td>212</td><td>Major</td><td>Elective</td><td>Advanced Machine - Environment Design</td><td>2</td><td>1～3</td><td>1</td><td>Discontinuted</td><td>Endo</td><td>N/A</td></tr>
<tr><td>213</td><td>Major</td><td>Elective</td><td>Advanced Dynamical Systems Engineering</td><td>2</td><td>1～3</td><td>1</td><td>Newly-Established</td><td>Toyoda
E</td><td>Students who enrolled in and before AY 2025 can take this subject.</td></tr>
</table>

<table>
<tr><th>No.</th><th>Classification
区分</th><th>Compulsory
/Elective必
修選択</th><th>Subject Name科目名</th><th>Credits単位</th><th>Year開講年</th><th>Term期間</th><th>Revisions改定区分</th><th>Subject name,
Lecturer-in-Charge and Term etc.
(Changes are shown as
[Before revision] → [After
revision].)細かい改定内容</th><th>Measures to
students在学生の
対応</th></tr>
<tr><td colspan="10">Doctoral Program (Materials Science)</td></tr>
<tr><td>214</td><td>Common</td><td>Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation</td><td colspan="7">Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis.

(New)
Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Materials Science
<table><tr><th></th><th colspan="4">Diploma Policy</th></tr><tr><th></th><th>1. Research implementation abilities</th><th>2. Ability to pioneer unexplored areas</th><th>3. Giving back to society through research findings</th><th>4. Leadership to guide research and development</th></tr><tr><td>Doctoral Program

1st-3rd Grade</td><td>Doctoral Dissertation
Materials Science 1 & 2
Creation of Advanced Materials, Advanced Diffraction Physics, Advanced Course of Inorganic Structural Materials Science, Advanced Course of Precise Molecular Design, Advanced Organic Functional Materials Science, Advanced Organic Solid State Chemistry, Advanced Course for Functional Materials Science, Advanced Physical Characteristics of Materials, Advanced Optical Device Engineering, Advanced Electroceramics, Advanced Course for Fracture Control, System Design for Structural Safety, Advanced Engineering on Functional Inorganic Materials, Advanced Interface Science, Advanced Manufacturing DX System, Advanced Control Engineering for Electromagnetic and Optical Waves, Advanced Molecular Robotics, Advanced Course for Crystal Engineering, Advanced Computational Materials Science, Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Materials Science 1 & 2
Creation of Advanced Materials, Advanced Diffraction Physics, Advanced Course of Inorganic Structural Materials Science, Advanced Course of Precise Molecular Design, Advanced Organic Functional Materials Science, Advanced Organic Solid State Chemistry, Advanced Course for Functional Materials Science, Advanced Physical Characteristics of Materials, Advanced Optical Device Engineering, Advanced Electroceramics, Advanced Course for Fracture Control, System Design for Structural Safety, Advanced Engineering on Functional Inorganic Materials, Advanced Interface Science, Advanced Manufacturing DX System, Advanced Control Engineering for Electromagnetic and Optical Waves, Advanced Molecular Robotics, Advanced Course for Crystal Engineering, Advanced Computational Materials Science, Practical work for project leader education</td><td>Doctoral Dissertation
Advanced Manufacturing DX System, System Design for Structural Safety, Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Practical work for project leader education
Researcher Ethics</td></tr></table>
(Old)
Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Materials Science
<table><tr><th></th><th colspan="4">Diploma Policy</th></tr><tr><th></th><th>1. Research implementation abilities</th><th>2. Ability to pioneer unexplored areas</th><th>3. Giving back to society through research findings</th><th>4. Leadership to guide research and development</th></tr><tr><td>Doctoral Program

1st-3rd Grade</td><td>Doctoral Dissertation
Materials Science 1 & 2
Creation of Advanced Materials, Advanced Diffraction Physics, Advanced Course of Inorganic Structural Materials Science, Advanced Course of Precise Molecular Design, Advanced Organic Functional Materials Science, Advanced Organic Solid State Chemistry, Advanced Course for Functional Materials Science, Advanced Physical Characteristics of Materials, Advanced Optical Device Engineering, Advanced Electroceramics, Advanced Course for Fracture Control, System Design for Structural Safety, Advanced Engineering on Functional Inorganic Materials, Advanced Interface Science, Advanced Manufacturing DX System, Advanced Control Engineering for Electromagnetic and Optical Waves, Advanced Molecular Robotics, Advanced Course for Crystal Engineering, Advanced Computational Materials Science, Advanced Laser Processing, Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Materials Science 1 & 2
Creation of Advanced Materials, Advanced Diffraction Physics, Advanced Course of Inorganic Structural Materials Science, Advanced Course of Precise Molecular Design, Advanced Organic Functional Materials Science, Advanced Organic Solid State Chemistry, Advanced Course for Functional Materials Science, Advanced Physical Characteristics of Materials, Advanced Optical Device Engineering, Advanced Electroceramics, Advanced Course for Fracture Control, System Design for Structural Safety, Advanced Engineering on Functional Inorganic Materials, Advanced Interface Science, Advanced Manufacturing DX System, Advanced Control Engineering for Electromagnetic and Optical Waves, Advanced Molecular Robotics, Advanced Course for Crystal Engineering, Advanced Computational Materials Science, Advanced Laser Processing, Practical work for project leader education</td><td>Doctoral Dissertation
Advanced Manufacturing DX System, System Design for Structural Safety, Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Practical work for project leader education
Researcher Ethics</td></tr></table></td></tr>
<tr><td>215</td><td>Major</td><td>Elective</td><td>Advanced Laser Processing</td><td>2</td><td>1～3</td><td>1</td><td>Discontinuted</td><td>As shown in the left</td><td>N/A</td></tr>
</table>

<table>
<tr><th>No.</th><th>Classification
区分</th><th>Compulsory /Elective必修選択</th><th>Subject Name科目名</th><th>Credits単位</th><th>Year開講年</th><th>Term期間</th><th>Revisions改定区分</th><th>Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容</th><th>Measures to students在学生の対応</th></tr>
<tr><td colspan="10">Doctoral Program (Civil Engineering and Bioengineering)</td></tr>
<tr><td>216</td><td>Common</td><td>Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation</td><td colspan="7">Revise the Correspondence Table of Diploma Policy, Subjects and Master's Thesis.
(New)
Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Civil Engineering and Bioengineering
<table><tr><th></th><th colspan="4">Diploma Policy</th></tr><tr><th></th><th>1. Research implementation abilities</th><th>2. Ability to pioneer unexplored areas</th><th>3. Giving back to society through research findings</th><th>4. Leadership to guide research and development</th></tr><tr><td>Doctoral Program
1st-3rd Grade</td><td>Doctoral Dissertation
Civil, Environmental, and Biological Engineering 1 & 2
Advanced Lecture on Disaster Control and Revitalization
Advanced Hybrid Materials and Structures
Advanced Estimation of Materials Life-time or Remaining Life-time
Advanced steel structural engineering
Advanced Urban Transportation Planning
Advanced Urban and Regional Planning
Advanced Hydrospheric Engineering
Advanced Course of Disaster Management
Advanced Geotechnical Engineering
Integrated Plant Biotechnology
Molecular Neuroengineering
Advanced Course of Applied Microbial Technology
Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Civil, Environmental, and Biological Engineering 1 & 2
Advanced Environmental Engineering
Advanced Engineering for Global Environmental Measurement
Advanced Course of Biomaterial Engineering
Advanced Course of Plant Genetic Engineering
Advanced Course of Environmental and Applied Biochemistry
Advanced Course of Glycobiology and Glycotechnology
Advanced Stem cell Technology
Biorefinery Development
Genetic Engineering - Advanced Course
Biological systems in molecular motility
Advanced Course of Microbiology for Environmental Engineering
Practical work for project leader education</td><td>Doctoral Dissertation
Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Practical work for project leader education
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Correspondence Table of Diploma Policy, Subjects and Doctoral Dissertation in Civil Engineering and Bioengineering
<table><tr><th></th><th colspan="4">Diploma Policy</th></tr><tr><th></th><th>1. Research implementation abilities</th><th>2. Ability to pioneer unexplored areas</th><th>3. Giving back to society through research findings</th><th>4. Leadership to guide research and development</th></tr><tr><td>Doctoral Program
1st-3rd Grade</td><td>Doctoral Dissertation
Civil, Environmental, and Biological Engineering 1 & 2
Advanced Lecture on Disaster Control and Revitalization
Advanced Hybrid Materials and Structures
Advanced Estimation of Materials Life-time or Remaining Life-time
Advanced steel structural engineering
Advanced Urban Transportation Planning
Advanced Urban and Regional Planning
Advanced Hydrospheric Engineering
Advanced Course of Disaster Management
Advanced Geotechnical Engineering
Integrated Plant Biotechnology
Molecular Neuroengineering
Advanced Course of Applied Microbial Technology
Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Civil, Environmental, and Biological Engineering 1 & 2
Advanced Environmental Engineering
Advanced Engineering for Global Environmental Measurement
Advanced Course of Biomaterial Engineering
Advanced Course of Plant Genetic Engineering
Advanced Course of Environmental and Applied Biochemistry
Advanced Course of Glycobiology and Glycotechnology
Advanced Stem cell Technology
Ion channels and excitable membrane
Biorefinery Development
Genetic Engineering - Advanced Course
Biological systems in molecular motility
Advanced Course of Microbiology for Environmental Engineering
Practical work for project leader education</td><td>Doctoral Dissertation
Practical work for project leader education
Researcher Ethics</td><td>Doctoral Dissertation
Practical work for project leader education
Researcher Ethics</td></tr></table></td></tr>
<tr><td>217</td><td>Major</td><td>Elective</td><td>Ion channels and excitable membrane</td><td>2</td><td>1〜3</td><td>2</td><td>Discontinued</td><td>As shown in the left</td><td>N/A</td></tr>
<tr><td colspan="10">Nuclear System Safety Regulatory Course</td></tr>
<tr><td>218</td><td>Common</td><td>curriculum table</td><td colspan="7">Add a description of the "☆" mark to the curricular chart.</td></tr>
<tr><td>219</td><td>Common</td><td>Compulsory</td><td>Advanced Lecture on Nuclear Regulation</td><td>2</td><td>Master 1〜2</td><td>1</td><td>Change of Subject Name</td><td>Advanced Lecture on Nuclear Regulation →Nuclear Regulation and Safety Management</td><td>Students who have earned credits for Advanced Lecture on Nuclear Regulation cannot take this subject.</td></tr>
<tr><td>220</td><td>Common</td><td>Elective</td><td>Advanced Engineering for Radiation Safety and Detection</td><td>1</td><td>Master 1〜2</td><td>1</td><td>Not Conducted in 2026</td><td>As shown in the left</td><td>As shown in the left</td></tr>
<tr><td>221</td><td>Common</td><td>Elective</td><td>Nuclear Power Reactor and Plant Systems</td><td>2</td><td>Master 1〜2</td><td>1</td><td>Change in Notes Column</td><td>Students who have earned credits for Nuclear Power Plant Engineering cannot take this subject.</td><td>As shown in the left</td></tr>
<tr><td>222</td><td>Common</td><td>Elective</td><td>Nuclear Power Plant Engineering</td><td>2</td><td>Master 1〜2</td><td>2</td><td>Newly-Established</td><td>Takezawa
☆ E S</td><td>Students who enrolled in and before AY 2025 can take this subject.</td></tr>
<tr><td>223</td><td>Common</td><td>Elective</td><td>Advanced Seismic Safety Engineering and Community Disaster Management</td><td>2</td><td>Master 1〜2</td><td>2</td><td>Discontinued</td><td>As shown in the left</td><td>N/A</td></tr>
</table>

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
WISE Program (Course for the 5-year Integrated Doctoral Program)									
224	Common	curriculum table	Add a description of the "☐" mark to the curricular chart. ☐: Subject Available for On-Demand Classes.						
225	Major	Elective Compulsory	Business Communication	2	1〜5	2	Discontinuted	As shown in the left	N/A
226	Major	Elective Compulsory	Creative Leadership	2	1〜5	2	Change in Notes Column	☆→☆ ☐	N/A
227	Major	Elective Compulsory	Cultural Intelligence (CQ)	2	1〜5	1	Discontinuted	As shown in the left	N/A
228	Major	Elective Compulsory	Cultural Leadership	2	1〜5	2	Discontinuted	As shown in the left	N/A
229	Major	Elective Compulsory	Design Thinking	2	1〜5	1	Change in Notes Column	☆→☆ ☐	N/A
230	Major	Elective Compulsory	Digital Communications	2	1〜5	2	Discontinuted	As shown in the left	N/A
231	Major	Elective Compulsory	Robotic Process Automation (RPA)	2	1〜5	1	Discontinuted	As shown in the left	N/A
232	Major	Elective Compulsory	Social Innovation	2	1〜5	2	Discontinuted	As shown in the left	N/A
233	Major	Elective Compulsory	Technology Management	2	1〜5	1	Change in Notes Column	☆→☆ ☐	N/A
234	Major	Elective Compulsory	Think Like A Futurist	2	1〜5	1	Discontinuted	As shown in the left	N/A
WISE Program (Course for the Master's Program and Doctoral Program)									
235	Common	curriculum table	Add a description of the "☐" mark to the curricular chart. ☐: Subject Available for On-Demand Classes.						
236	Major	Elective Compulsory	Business Communication	2	Master 1〜2 Doctor1〜3	2	Discontinuted	As shown in the left	N/A
237	Major	Elective Compulsory	Creative Leadership	2	Master 1〜2 Doctor1〜3	2	Change in Notes Column	☆→☆ ☐	N/A
238	Major	Elective Compulsory	Cultural Intelligence (CQ)	2	Master 1〜2 Doctor1〜3	1	Discontinuted	As shown in the left	N/A
239	Major	Elective Compulsory	Cultural Leadership	2	Master 1〜2 Doctor1〜3	2	Discontinuted	As shown in the left	N/A
240	Major	Elective Compulsory	Design Thinking	2	Master 1〜2 Doctor1〜3	1	Change in Notes Column	☆→☆ ☐	N/A
241	Major	Elective Compulsory	Digital Communications	2	Master 1〜2 Doctor1〜3	2	Discontinuted	As shown in the left	N/A
242	Major	Elective Compulsory	Robotic Process Automation (RPA)	2	Master 1〜2 Doctor1〜3	1	Discontinuted	As shown in the left	N/A
243	Major	Elective Compulsory	Social Innovation	2	Master 1〜2 Doctor1〜3	2	Discontinuted	As shown in the left	N/A
244	Major	Elective Compulsory	Technology Management	2	Master 1〜2 Doctor1〜3	1	Change in Notes Column	☆→☆ ☐	N/A
245	Major	Elective Compulsory	Think Like A Futurist	2	Master 1〜2 Doctor1〜3	1	Discontinuted	As shown in the left	N/A

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
SDG Professional Course									
246	Common	Compulsory	SDGs -recognizing limitations and challenges-	2	1・2	2	Change of Subject Name	SDGs -recognizing limitations and challenges- →Theory of Solving Regional Issues Overseas	Students who have earned credits for SDGs -recognizing limitations and challenges- cannot take this subject.
Applied Safety Engineering Course									
247	Majpr	Elective Compulsory	Advanced Engineering on Electrical Machine	2	1・2	2	Discontinuted	As shown in the left	N/A
248	Major	Elective Compulsory	Principles in Drug Action	2	1・2	1	Discontinuted	As shown in the left	N/A
249	Major	Elective Compulsory	Environmental Analytical Chemistry	2	1・2	1	Newly-Established	As shown in the left	N/A
250	Major	Elective Compulsory	Advanced course of disaster management	2	1・2	2	Change of Term	2nd Term→1st Term	Students who have earned credits for Advanced course of disaster management before 2025 or Advanced Seismic Safety Engineering and Community Disaster Management cannot take this subject.
251	Major	Elective Compulsory	Advanced Lecture on Nuclear Regulation	2	1・2	1	Change of Subject Name	Advanced Lecture on Nuclear Regulation →Nuclear Regulation and Safety Management	Students who have earned credits for Advanced Lecture on Nuclear Regulation cannot take this subject.
252	Major	Elective Compulsory	Advanced Seismic Safety Engineering and Community Disaster Management	2	1・2	2	Discontinuted	As shown in the left	N/A

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応

【The following is for students enrolled before AY 2021.】

*including students who enrolled System Safety Engineering before AY 2023

Revision of Common Rules (Graduate School of Engineering)

1 | Common | Examinations and Performance Evaluation

Revise the Examinations and Performance Evaluation.

(New)

Grade	Achievement Level	Points	GP
S	Student has thoroughly fulfilled the academic objectives of the subject and has achieved outstanding results	90–100	4
A	Student has thoroughly fulfilled the academic objectives of the subject	80–89	3
B	Student has fulfilled the academic objectives of the subject	70–79	2
C	Student has fulfilled the minimal academic objectives of the subject	60–69	1
D	Student has not fulfilled the academic objectives of the subject	0–59	0

(Old)

Grade	Meaning	Points	GP
S	Student has thoroughly fulfilled the academic objectives of the subject and has achieved outstanding results	90–100	4
A	Student has thoroughly fulfilled the academic objectives of the subject	80–89	3
B	Student has fulfilled the academic objectives of the subject	70–79	2
C	Student has fulfilled the minimal academic objectives of the subject	60–69	1
D	Student has not fulfilled the academic objectives of the subject	0–59	0

2 | Common | On-Demand Classes

Add the On-Demand Classes.

Students who are unable to attend classes (lecture subjects) due to off-campus dispatch or other assignments may complete all or part of the coursework through on-demand (asynchronous) classes.
The required conditions and procedure for on-demand classes are outlined below. Students who meet these conditions and wish to take on-demand classes are requested to apply using the stipulated procedure.

(1) Conditions for On-Demand Classes
On-demand classes will be permitted under the following conditions:
① Cases in which students are engaged in off-campus practical training as part of a regular subject (teaching practice, research internships, etc.)
② Cases in which students are conducting research activities at another institution under an “external research guidance” arrangement
③ Other cases in which on-demand classes are deemed necessary (limited to cases with truly compelling circumstances, excluding job hunting and extracurricular internships.)
(2) Subjects Available for On-Demand Classes
Subjects that offer on-demand classes are indicated with “☐” in the Notes column of the curriculum tables.
(3) Application Procedure for On-Demand Classes
Students who wish to take on-demand classes must obtain permission from their academic supervisors and also submit an Application for On-Demand Classes to the Division of Academic Affairs when applying for overseas dispatch subjects or external research guidance.
(4) Instructions for On-Demand Classes
Students taking on-demand classes should follow the instructions provided by the lecturer-in-charge.
*The Application for On-Demand Classes can be downloaded by accessing the LiveCampusU “Menu” → “Campus Info” → “School Shared Files”.

Master's Program (System Safety Engineering)

3	Common	curriculum table	Add a description of the "☐" mark to the curricular chart. ☐: Subject Available for On-Demand Classes.						
4	Major	Elective-Compulsory	Advanced Occupational Safety Management	2	1・2	2	Change of Term	2nd Term→1st & 2nd Term	N/A
5	Major	Elective-Compulsory	Construction of Safety System	2	1・2	2	Change in Notes Column	★→★ ☐	N/A
6	Major	Elective	Advanced Analysis of Accident Information	1	1・2	1・2	Change in Notes Column	O I ★→O I ★ ☐	N/A
7	Major	Elective	Advanced lecture on structural integrity assessment	2	1・2	1～3	Change in Notes Column	e-learning O ★ →e-learning O ★ ☐	N/A
8	Major	Elective	Advanced lecture on Safety management in medical devices and clinical systems	2	1・2	1～3	Change in Notes Column	e-learning E ★ →e-learning E ★ ☐	N/A

No.	Classification 区分	Compulsory /Elective必修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After revision].)細かい改定内容	Measures to students在学生の対応
Doctoral Program (Information Science and Control Engineering)									
9	Major	Elective	Advanced Super-precision Instrumentation	2	1～3	1	Discontinuted	As shown in the left	N/A
10	Major	Elective	Advanced Machine - Environment Design	2	1～3	1	Discontinuted	As shown in the left	N/A
11	Major	Elective	Advanced Dynamical Systems Engineering	2	1～3	1	Newly-Established	Toyoda E	Students who enrolled in and before AY 2025 can take this subject.
Doctoral Program (Energy and Environment Science)									
12	Major	Elective	Advanced Superconducting Material Engineering	2	1・2	2	Not Conducted in 2026	As shown in the left	N/A