2025 Revisions to the Curriculum Table

Graduate School For students enrolled in/before 2025

Pages 1-36: For students who enrolled in AY 2022 to 2024

*except students who enrolled System Safety Engineering before AY 2023

Page 37: For students who enrolled before AY 2021

*including students who enrolled System Safety Engineering before AY 2023



No.	Classification 区分	Compulsory /Elective必 修選択	Subject Name科目名	Credits単位 Year開記	構年 Term期間 Revis	ions改定区分	Lecturer-in-Char (Changes a	t name, rge and Term etc. re shown as sion1 → [After	Measures to students在学生 対応
visio	n of Com	mon Rule	es (5-Year Integra	ted Doctoral Pro	gram)		IBelore revis	Sioni → Tatter	
			Revise the Diploma Policy						
1	Common	Re	5-year Integ Science of Te The human re develop are le fields, creativi projects and g students to att 1. Research in Advanced systematica knowledge 2. Ability to p Willingness scientific pr 3. Social impl Willingness managemer 4. Global inn Leadership diverse enti A doctoral dep	rated Doctoral Prechnology Innovation sources that Nagaolisading engineers and ty to pioneer unexploration. To ain by taking various implementation ability teasers in specialized fields and ability to take of inciples from multiplementation of reservant practical ability to tease and tease and tease and tease and tease and tease and tease	ogram - Policy for la ca University of Techn researchers who post ored areas, and practical achieve this aim, we subjects and engaging ities tation abilities to in that can produce be that serve as the found areas on the challenges of pille le specialized fields.	nology's 5-year sess in-depth an al skills to indep have set the f g in research ac adependently s eneficial outcor lation for resear oneering unexp addings to socia to the impact on research and o ectives and adve-	Integrated Do and abundant to endently imple following four tivities. set one's own nes, as well as ch. dored areas bas al implementat society. development w anced conversa	octoral Program nowledge in spe- ement their own r attributes as tary r research topi s in-depth and al sed on the integra- tion from a tech while collaboration attornal skills.	aims to cialized esearch gets for cs and bundant ation of mology ng with
			screening base	ed on the criteria stip	ulated by the departme	ent.			
			75001		45				
			DP CP	Research implementation abilities	2. Ability to pion unexplored area	eer implen	d CP Social nentation of ch findings	4. Global inno leader	vation
				Research implementation	2. Ability to pion	eer implen	Social nentation of	SQ (S)	vation
			CP	Research implementation abilities	Ability to pion unexplored area	eer implen	Social nentation of th findings	leader	vation.
			CP 1	Research implementation abilities	2. Ability to pion unexplored area	eer implen	Social nentation of ch findings	leader O	vation
			CP 1 2	Research implementation abilities O O O	Ability to pion unexplored area	eer implen	Social nentation of ch findings	leader O	vation
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			CP 1 2 3 4 5 6	Research implementation abilities O O O O	2. Ability to pion unexplored area	eer implen	Social nentation of ch findings O O O O	leader	vation
			CP 1 2 3 4 5	Research implementation abilities O O O O	2. Ability to pion unexplored area	eer implen	Social mentation of th findings O O O O	leader O O O O	vation

No. 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	Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After	Measures students在学 対応
2 Common	Curriculum	Implementation Science of Technology Department of Sci In this way, the planowledge in specimplement their of curriculum based. 1. To cultivate the development of Technology I are guidance for the 2. To cultivate the to participate in 3. To cultivate the diverse entities are required to participate in 4. To cultivate the multiple special university offer principle, these 6. Common subject and increase the 7. To cultivate the perspective, stuabroad. 8. The program of to corporate ma 9. Various courses society. Student [Policy for Acades]	ed Doctor (Curricus) (al Progra ulum Poli evation mology, in chnology I evelops les elds, creative th projects owing polic mplementa ologies, sto first two y on of their earn and es and journal guide innov assightful in in the Inter- advance acc onopulsory e conducte red to stud to implementa engage in d incouraged se to enable and to acq d to enable ertified as of rement Eva	accordance mnovation, ading engine vity to pior and guide cies. tion abilities are recorded accordance of students are recorded according through the mational Russional Russio	the with its Diplom and assigns faculty neers and research neer unexplored are innovation. To the set that facilitate the required to take Addy. From their third spertation, pply advanced spertucted by their acaush research and deperspectives and a sesearch Internship, earch based on the intrinsicus abilities required Science of Technic port the development of the develop	a Policy, offers subjects required with the process of the university offers a demic supervised theories at the university offers a supervised Experiment of Sciences year, students will receive rescalable theories at the university offers a demic supervisors.	ared by the al research. It is a bundant dependently systematic and e of earch are required gwith students e required es from ers, the elective). In erspective emational in and approach of modern jects.

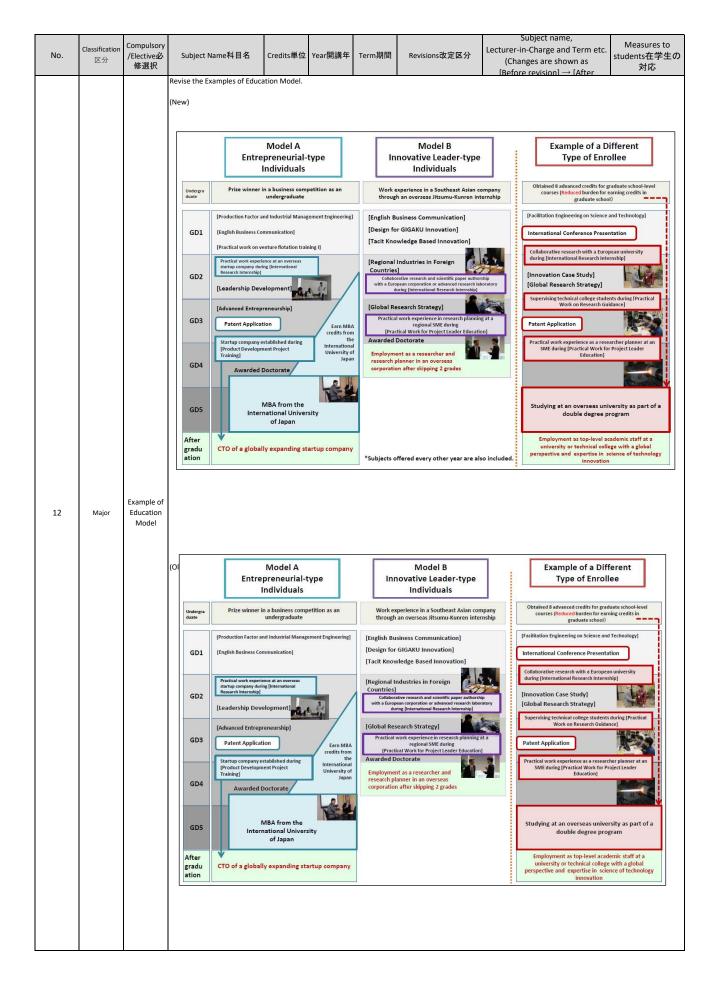
No.	Classification 区分	Compulsory /Elective必 修選択	Subject Name科目名	Credits単位 Year開講名	ᆍ Term期間 Revisions改分	Subject Lecturer-in-Charg (Changes ard (Before revision	ge and Term etc. e shown as	Measures to students在学生 対応							
evisio	n of Comi		s (Master's Progr												
			Revise the Diploma Policy o	f Master's Program.											
			Master's Pro	gram - Policy for I	Degree Conferment (D	iploma Policy: DP)									
			Master's Progr	Master's Program in Engineering											
			engineers and re possess advance achieve this air education comp	The human resources that Nagaoka University of Technology's Master's Program aims to develop are leading engineers and researchers who are adept at using information technology, have acquired a safety mindset, are possess advanced practical and creative abilities that can facilitate the global expansion of technology. It achieve this aim, we have set the following four attributes as targets for students to attain through a broat education comprising major subjects, common subjects, and research guidance conducted both inside an outside the university.											
3	Common	Diploma Policy	to effectively 2. Flexible con- Acquisition of as multifacete 3. Strategic tec Acquisition of technological 4. Global leade Acquisition of engineers and A master's degree	of advanced specialize utilize information to ceptualization ability of cross-sectoral knowed and flexible conceptualization development and reserving science and technological development and reserving science and technological development and reserving the abilities to work decembers.		fety mindset. logy ocus on different interdi ience and technology. es ciety and industry, and and compete fairly on the	to strategically ne global stage a	s, as well advance s leading							
			200000000000000000000000000000000000000		semmar) subjects, and e of the above targets, and	(S) 2.V(0)	있는 대한 대표 기계								
			Subjects that Inc	mare the declaration	or the hoove the gets, and	mive proses the misser	o mesio sercem								
			C 1 1 1 PR 1CT												
				Co	rrespondence between t	he DP and CP									
			DP CP	1. Advanced expertise	2. Flexible conceptualization abilities in science and technology	he DP and CP 3. Strategic technological development and research abilities	4. Global les science a technolo	and							
				1. Advanced	Flexible conceptualization abilities in science	Strategic technological development and	science a	and							
			СР	1. Advanced expertise	Flexible conceptualization abilities in science and technology	Strategic technological development and research abilities	science a technolo	and							
			CP 1	Advanced expertise	Plexible conceptualization abilities in science and technology	Strategic technological development and research abilities	science a technolo	and							
			CP 1 2	1. Advanced expertise	Plexible conceptualization abilities in science and technology	Strategic technological development and research abilities	science a technolo	and							
			CP 1 2 3	1. Advanced expertise	Plexible conceptualization abilities in science and technology	Strategic technological development and research abilities	science a technolo	and							
			CP 1 2 3 4	1. Advanced expertise O O	2. Flexible conceptualization abilities in science and technology O O	Strategic technological development and research abilities	science a technolo	and							

No.	Classification 区分	Compulsory /Elective必 修選択	Subject Name科目名
4	Common	Curriculum Policy	Revise the Curriculum Policy of Master's Program. Master's Program - Policy for Curriculum Organization and Implementation (Curriculum Policy: CP) Master's Program in Engineering Nagaoka University of Technology, in accordance with its Diploma Policy, offers subjects required by each specialized field of science and technology under an educational philosophy that integrates the undergraduate and master's programs. Through these subjects, the Master's Program develops leading engineers and researchers who possess advanced practical and creative abilities that can facilitate the global expansion of technology. To this end, the university offers a systematic curriculum based on the following policies. 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. 2. Through the systematic organization of subjects according to the areas of specialization in each major, the Master's Program provides an education that enhances specialized expertise while also addressing interdisciplinary areas. Furthermore, students may take subjects in other majors, thereby enabling them to understand integrated technologies that cover multiple specialized disciplines. 3. Research Integrity is a compulsory subject in all majors. In addition, students will take specialized engineering subjects to form a safety mindest and develop proficiency in information technology that is closely related to each major. 4. Common subjects are offered to students in all majors to support the development of expertise from a broad perspective and increase their abilities to implement technology that is closely related to each major. 4. Common subjects are offered to students in all majors to support the development of expertise from a broad perspective and increase their abilities to implement technology in society. Common subjects
5	Common	Diploma Policy	Delete the Diploma Policy in each major of Master's Program.
6	Common	Curriculum Policy	Delete the Curriculum Policy in eaeh major of Master's Program.
7	Common	Education Goals	Delete the Education Goals in each major of Master's Program.

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	(Changes ar		Measures to students在学生 対応
evisio	n of Comi	mon Rule	s (Doctoral Progi	am)				I IBEIOTE TEVIS	OIII - TAILEI	
			Revise the Diploma Policy	of Doctoral Prog	ram.					
8		Doctoral Progr The human reso engineers and repioneer unexpload contribute to soo students to attain 1. Research imply Advanced respectively to piother willingness a scientific print. 3. Giving back Willingness a into the impact. Leadership steplators collaborating skills. A doctoral degree.	am in Engineration where the searchers where the search important of the searc	agaoka Un who posses and practic opment. To various may a abilities essearch the fields that lored area take on the multiple sparough res- ability to late earch and an contrib- entities ba	in a skills to a chieve the jor subjects at can proper as the second control of the challenge occalized for the challenge occasion of the challenge occasion o	Technology's I and abundant keepindently his aim, we have and engaging it to independe duce beneficial e foundation for ess of pioneering fields. It in the findings to so that the tiety's progress ghtful internation who have earned	oma Policy: DP) Doctoral Program air mowledge in special implement their or set the following for research activities on the set one's own outcomes, as well a research. Unexplored areas be really development with the following free arch. The set one's own outcomes, as well a research. The set one's own outcomes, as well a research. The set one's own outcomes, as well a research. The set one's own outcomes, as well a research. The set one's own outcomes, as well a research.	win research proper attributes as we research to the same as in-depth and ased on the interval of the gaining death of the same and developmed advanced continuous its needed for our same as a second of the same as a second	reativity to rojects and targets for rojects and dopics	
			screening based							
			N	State and section		espondenc	e between the		T or - market	(i)
			CP DP	Resear implement abilitie	ation	2. Ability unexplor	to pioneer red areas	 Giving back to society through research findings 	4. Leader guide reser develop	arch and
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No. 区分	Compulsory /Elective必 修選択	Subject Name科目名	Credits単位 Yea	ar開講年 Term期間	Revisions改定区分	(Changes are shown as	students在学的
9 Common		Policy: CP) Doctoral Program Nagaoka Universimajor in the Doct this way, the pro- knowledge in spe- implement their or a systematic curri 1. To cultivate it development of of their doctora 2. To cultivate the are required to 3. To cultivate the are required to 4. To cultivate the multiple special select from thei 5. To cultivate the perspective, stu 6. Various course society. These be certified as of	am - Policy for in Engineer ity of Technol oral Program is ogram developcialized fields with research produum based of the research in Free technologial dissertation ability to learn participate in just ability to publiced fields, the subjects with a sability to engineer the same encourage are offered to courses are offered to courses are offered to course are offered to	logy, in accordant in Engineering, a ps leading engine, creativity to projects and contribute the following purplementation and effectively journal clubs convance academic at the university of the consideration of gage in discussion araged to activel to enable advance fered to students ourse if they take them the Evaluation of the contract of the contract of the students ourse if they take them the traction of the contract of the contract of the students ourse if they take them the traction of the contract of the students ourse if they take the traction of the contract of the students ourse if they take the traction of the contract of the students ourse if they take the traction of the contract of the students ourse if they take the students of the student	nce with its Diplom and assigns faculty representation on the concert unexplored abute to society's devolicies. Abilities that facilities or, students will recomply advanced spendicted by their acadesearch based on the certification of their future goals, and debates about y participate in acadesed and systematic stand pass the design ective evaluation of the certification, the	a Policy, offers subjects requirements to supervise doctoral ers who possess in-depth arreas, and practical skills to intelopment. To this end, the universe depth arreas, and practical skills to intelopment. To this end, the universe the formation of novel the eigenvectors are as a subject of the cialized knowledge in each mademic supervisors. In the end of the cialized knowledge in each mademic supervisors. In the end of the cialized knowledge in each mademic supervisors. In the end of th	red by each research. In ad abundant dependently persity offers theories and preparation jor, students are required aciples from tudents may international and abroad is of modern students will be awarded is are clearly

No.	Classification 区分	Compulsory /Elective必 修選択		Credits単位 Y		Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After	Measures to students在学生の 対応
5-year li	ntegrated	Doctor	al Program (Science	of Techn	ology In	novatio	n)		
10	Major	Education Goals	Delete the Education Goals in	eaeh major of	5-year Integ	rated Doctora	ıl Program.		
11	Major	Plan of Dissertation Research Guidance	is provided for 3 to 5 years (inci (1) For Students Enrolling in Ap April: GD1 students decide on t April: GD1 students decide on t April: GD1 students consult wit April GD1, students receive g comprehension methods. The e When planning is complete, ea research plan, the academic su content, the "Research Guidan From GD2 onwards, the studen proposal in a "Research Plan", a "Research Guidance Plan" and the student. From July onwards: Conduct re Students will carry out research During GD1, the students will n Through consultations with the The students will undergo peri guidance on the experimental/ From GD2 onwards, students w In addition to research guidance for external presentations, org: March to April in the following (2) For Students Enrolling in Septemb During GD1, students receive guidan will organize the previous research, w When planning is complete, each stu supervisor will prepare a "Research in September: GD1 students consult wi September to October: Developmen During GD1, students receive guidan will organize the previous research, w September to October: Developmen During GD1, students receive guidan will organize the previous research, su Supervisor will prepare a "Research of Students will carry out research in a During GD1, the students will mainly Through consultations with the acad The students will carry out research in a During GD1, the students will mainly Through consultations with the acad The students will undergo periodic c experimental/investigation methods From GD2 onwards, students will pra Through consultations with the acad The students will undergo periodic c experimental/investigation methods From GD2 onwards, students will pra Through consultations with the acad Uning GD1, the students will pra Through consultations with the acad The students will undergo periodic c experimental provestigation methods From GD2 onwards, students will pra Through consultations with the acad The students will undergo periodic c activity plans.	and the research place of the research plac	and completion d at the time of early completion in March of supervisors, mic supervisors. an their academ organize the pill outline the organize of the escarch to the academ of the Program Complete of the pill of the program Complete of the program C	of tentative a letion). 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In the student's Chair confirms its tudent will outline the will prepare a no" will be clarified to hods. Ons as appropriate, ts will receive research pare figures and tables methods. The students chiplan, the academic and will be clarified to the roposal in a "Research mit it to the Program guidance on the presentations, or external presentations,

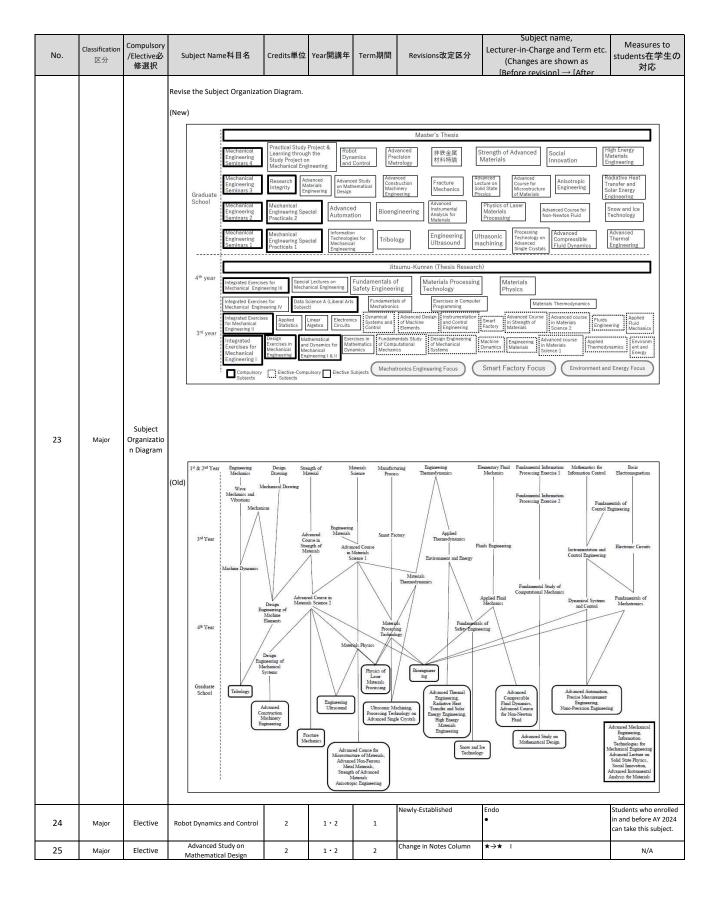


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13	Major	Correspond ence Table of Diploma Policy, Subjects and Doctoral Dissertation	Corresponding of the Correspon	ndence Table of I Diploma Policy 1. Research implen Doctoral Dissertatio Advanced experime Science of technoloy Science of technoloy Science of Science International research Advanced science of Practical work for practical work for practical work for practical work on pr	Diploma Policy, Sul mentation abilities in a classification of Science of technology in ot of Science of technology in movation to El Ty subsects of Technology Innovation in El Ty Subjects of Technology Innovation in internships in the subsection of the subsection	pjects and Doctoral 2. Ability Dectoral Dectora	al Dissertation in 5 to pioneer unexplored t	Science of Techn I areas of technology I & II areas of technology I & II areas I & II I & II I A & II I & II I A & I	a. Social implemental J. Social implemental Doctoral Dissertation Elective-Compulsors Elective-Elective Elective Elective-Elective Elective Elective Elective-Elective Elective Elect	I Technology innovation internship II I I I I I I I I I I I I I I I I I	4. Global innovation leader Doctoral Dissertation Elective Compilory Subjects Subjects of Science of Technology International Technology Internati	mnovation engineering on training I on training I on training I on training I in education 3 ce of technology size of technology size of technology magement engineering suntries
14	Major	Elective	Cultural Intel	ligence (CQ)	2	1~5	1	Not Conduc	cted in 2025	As shown in the le	ft	N/A
15	Major	Elective	Cultural Le	. ,	2	1~5	2		cted in 2025	As shown in the le		N/A
16	Major	Elective	Social Inr		2	1~5	2		cted in 2025	As shown in the le	•	N/A
17	Major	Common	Advanced	Business	2	1~5	2	Change of		2nd Term→1st Te		N/A
18	Major	Common	Compliance of		2	1~5	1	Discontinut	ted			N/A

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Master'	's Progran	n (Mech	anical Engineering)						
19	Major	Discipline	Revise the 3 cources of	Mechatron	ics Engineer	ing, Smart	Factory, and Environi	ment Energy Engineering to 3 fo	cuses.
20	Major	Plan of Thesis Research Guidance	Non-NUT Graduates - Students who graduated from ter - After the informal decision for ac (2) Schedule (For Students Comple [M1] April: Deciding on the students' ac April: Deciding on the research top April to July: Development of the research to April to July: Development of the research to April to July: Development of the research sudents receive guidance from the previous research, and develop When planning is complete, each supervisor will prepare a "Researc student. From July onwards: Conduct resea Students will carry out research in During M1, th students will mainly supervisors, the students will revie the students will undergo periodic experimental/investigation metho In M2, students will proceed with Students will receive instruction for organization and citation of refere the interim presentation and asse The academic supervisors will pro [M2] April: Review of the research topic April: Review of the research After reviewing the plan, each stu supervisor will prepare a "Researc student. End of November to Early December (3) Schedule (For Students En [M1] September: Deciding on the research plan, the academic content, the "Research Guida From October onwards: Conc Students will carry out resear During M1, the students will consultations will array out resear During M1, the students will consultations will proceed the sis. Students will proceed	taking and com not	Kunren Internshi dvanced courses he master's progr sors he will with their acc pervisors on rese n together with the proposal "and submit lit to he the proposal "and submit lit to he the research placting preliminary the presentation mi custor broads the side of the side to find a submit lit to of the Abolication tember and Co demic supervisc students con e research pla emic supervisc students con e research pla emic supervisc cearch, and de- will outline the l prepare a "Re l be clarified to not with the re- con conducting rs, the student on their resear n methods and ection and ana racademic sup tation of refere of the master's lance on prese students consu- arch plan: stud outline the "Re l be clarified to l prepare a "Re l prepare	p or the topic bit after the inforram and consultate addemic supervision and consultate addemic supervision and acceptance of the Program Colonian. The experiments and acceptance of the Program Colonian acceptance of the Student	riefing session following the Thinal decision for acceptance interaction with the Chair or the interaction with the acade hair. After the Program Chair of the investigations in order to est investigations in order to est investigations as appropriate, emic supervisors. Based on the idressert methods, and conso the their master's thesis, such as between November of M1 and ars to review their research top together with their academic ",", and submit it to the academic Assertion of the Master's Decreugust) The academic supervisors to the methods, literature search plan together with the "Research Plan", and submit it to the plan together with the "Research Plan" and submit it to experiments and investigat the plans for the prelimina by their academic supervisors are established research memory to the prepare their master as conducted between Novods. The conducted between Novods. The conducted between Novods.	esis Research Project presentation (March (be o the master's program (July (before enrollmended academic supervisor (February to March th topics. Iliterature reading comprehension methods. The search Guidance For tablish research methods. Through consultation for progress, the students will receive research liditate their research findings in the master's the structure of the thesis, preparation of figures of the structure of the thesis, preparation of figures of the structure of the structure of the student's research confirms its content, the "Research Guidance For each other documents In the structure of the student's research confirms its content, the "Research Guidance For each other documents In the structure of the student's research topics. In the structure of the student's research to the program Chair. After the Program of the Program Chair. After the Program of the Program of M1 and May of M2. In the structure of the structure of the student's thesis, such as the structure of structure of the structure of the structure of the structure of structure of the structure of the structure of the structure of structure of the structure of structur	the students will organize rich plan, the academic lan" will be clarified to the ms with the academic guidance on the lessis. I plan, the academic guidance on the lessis. I plan, the academic lan" will be clarified to the lan" will receive research indings in the master's hesis, preparation of

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	Lecturer-in-Char (Changes a	t name, rge and Term etc. ire shown as sion] → [After	Measures to students在学生の 対応
			Revise the subject figure (New)	Bachelor's Program in Engineering	[Common/Gene Exercises in h Linear Algebr Integrated Ex Fundamentals Processing Te (Elective-Comp Advanced Cou Materials, Machine Dynas Design Engines Elements, Fundamental St Computational Instrumentation	Mathematics and it as, Electronic Circursers for Mecha of Safety Engine chnology pulsory) use in Strength of mics, paring of Machine tudy of Mechanics,	Dynamics, Exeruits, Fundamer anical Engineering, Engineer dering, Engineer Advanced co Advanced co Engineering Design Engin Mechanical S Machine Dyn Design Engin Elements, Smart factory	atals of Mechatroning 4, Special Lecturing Materials, Matempulsory) urse in Materials 2, urse in Materials 2, urse in Materials 2, materials 6, systems, namics, neering of Machine	Programmin cs, Material: res on Mecl erials Physic (Elective- Advances Applied I Applied I Fluid Eng	Compulsory) I course in Materials 1, Thermodynamics, Fluid Mechanics,		
21	Major	subject figure		Master's Program in Engineering	Innovation, Adv Advanced Cours	chanical Engine, vanced Lecture of e for Microstruc ials, Anisotropic mation, y on Design, ement	n Solid State Pl ture of Materia Engineering, R. Tribology, Advanced Co Machinery E Fracture Med Engineering Ultrasonic in Processing T Advanced Si	nysics, Advanced In Is, Advanced non-f esearch Integrity construction nagineering, chanics, Ultrasound,	Advanced Advanced Advanced Advanced Advanced Newton I Radiative Solar Ene High Ene Engineeri	d Course for Non- Tuid, Heat Transfer and argy Engineering, argy Materials		
			(Old)	Bachelor's Program in Engineering	(Common/Gen Exercises in Linear Algeb Integrated Es Fundamental Processing T (Elective-Com Materials, Machine Dyna Design Engine Ements, Fundamental Computational Instrumentation Engineering,	Mathematics and ra, Electronic Cir- sercises for Mech- s of Safety Engine echnology pulsory) ruse in Strength of mics, erring of Machine study of Mechanics,	Dynamics, Exercuits, Fundamen anical Engineering, Engineer Advanced con Advanced con Engineering ID Design Engin Mechanical S Machine Dyn Design Engin Elements, Smart factory	urse in Materials 1, urse in Materials 2, Materials, eering of ystems, amics, eering of Machine	ogramming, Materials I son Mecha- ials Physics, (Elective-C Advanced of Applied Th Applied Fl	Thermodynamics, nical Engineering, Materials ompulsory) ourse in Materials 1, ermodynamics, uid Mechanics,		
				Master's Procram in Encineering	Innovation, Ad Advanced Cour Advanced Mate Advanced Aut Advanced Stu	echanical Engine vvanced Lecture o se for Microstruc rials, Anisotropic omitted dy on Design, rement	n Solid State Ph ture of Material	ysics, Advanced In: s, Advanced non-fer search Integrity unstruction agineering, hanics, Ultrasound, achining, echnology on agle Crystals	Advanced O Dynamics, Advanced O Newton Fit Radiative F Solar Energ High Energ Engineerin	leat Transfer and cy Engineering, cy Materials		

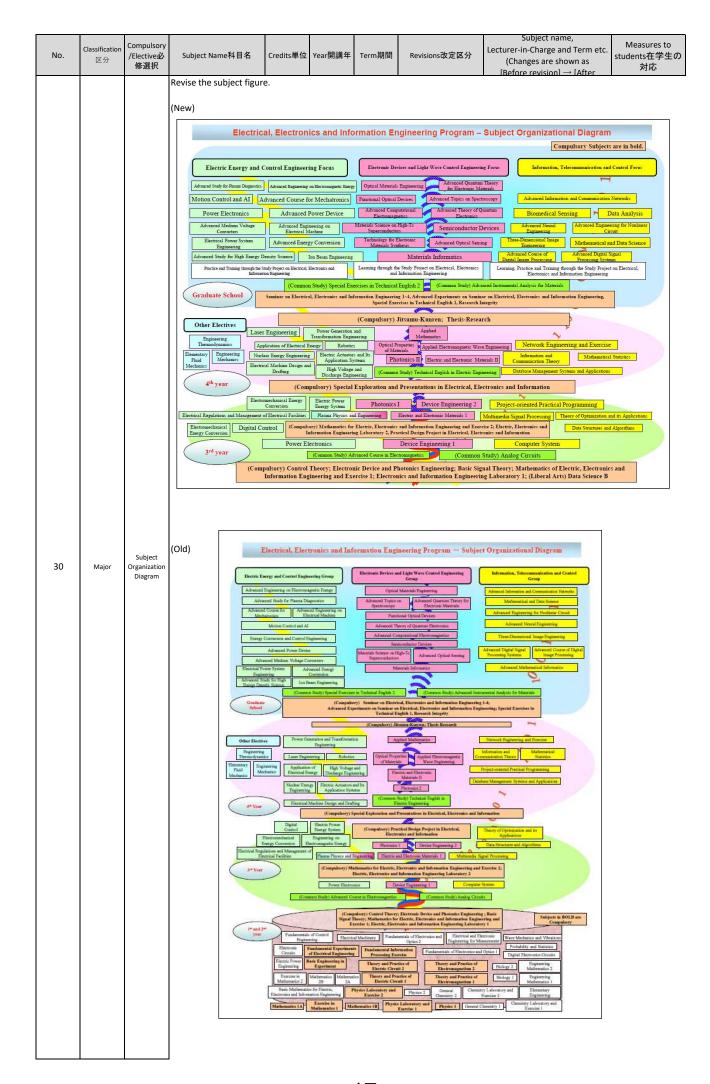
No.	Classification 区分	Compulsory /Elective必 修選択	Subject Name科目	名 Credits単位	Year開講年	Term期間	Revisions	改定区分	Lecturer-in-0 (Change	oject name, Charge and Term etc. es are shown as evisionl → [After	Measures to students在学生の 対応
22	Major	Correspond ence Table of Diploma Policy, Subjects and Master's Thesis	Master's Program 1 ^{st_2nd} Grade	ce Table of Diploma lence Table of Diploma lence Table of Diploma long the table of Diploma long the table of Diploma long the table of Diploma long table	Policy, Subjects 2. al tree tests and the property of the pro	s and Master's The Flexible conceptus bilities in science an echnology faster's Thesis dvanced Lecture on hysics, Advanced In malysis for Material total faterials, Advanced I fetal Materials, Stree dvanced Materials, Stree dvanced Street of Street fetal Materials, Street for echnologies for Mec ngineering (I), Infor echnologies for Mec ngineering (I) ractical Study Projec fechanical Engineer earning through the m Mechanical Engine ubjects of other major	solid State Solid State Solid State Strumental Solid State Strumental Solid State Solid State Strumental Solid State Solid Sta	3. Strategic tecl development at abilities Master's Thesis Advanced Mech Engineering, So Mechanical Eng Practicals 1 & 2 Engineering Sen Practical Study I Mechanical Eng	anological and research anical cial Innovation intering Special Mechanical minars 1 to 4 Project on intering	4. Global leader in science and technology Master's Thesis Mechanical Engineering Spec Practicals 1 & 2, Mechanical Engineering Seminars 1 to 4Practical Study Project on Mechanical Engineering Learning through the Study Pro on Mechanical Engineering Research Integrity	



No.	Classification 区分	Compulsory /Elective必 修選択	Subject Na		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	Measures to students在学生0 対応
26	区分 Major		Revise the sub (New) O Mech	echanical Engine Recommende Mechanical E - Course Nam Mechatronics Engineering Smart Factory Environment Energy Engin	ineering record major of Engineering - Record Major of Engineering record major of I Engineering - Record Major of I Engineeri	numends the formation Endougher of the formation	billowing managers of tronics and gineering rise of Processing and Data sion and being following managers of the processing following managers of the processing and being managers of the processing following managers of the processin	jor subjects from other major subjects from	Is Advanced Structural Analysis Advanced Hydraulics Advanced Environmental Informs Survey Engineering Advanced Topics on Atmospheric an Hydrospheric Sciences 2	対応 ring
				- Course N Mechatron Engineerin	nics	Advanced Co Digital Image	ourse of Processing	Advances in cell motility	5	
			Smart Factor			Mathematical Science	l and Data	Electric Properties of Solid Advanced Molecular	Advanced Structural Analysis	
				Environm Energy Er		Energy Conv Control Engin		Electric Properties of Solid Advanced Molecular Genetics	Advanced Hydraulics s Advanced Environmental Informatic Survey Engineering Advanced Topics on Atmospheric and Hydrospheric Sciences 2	11

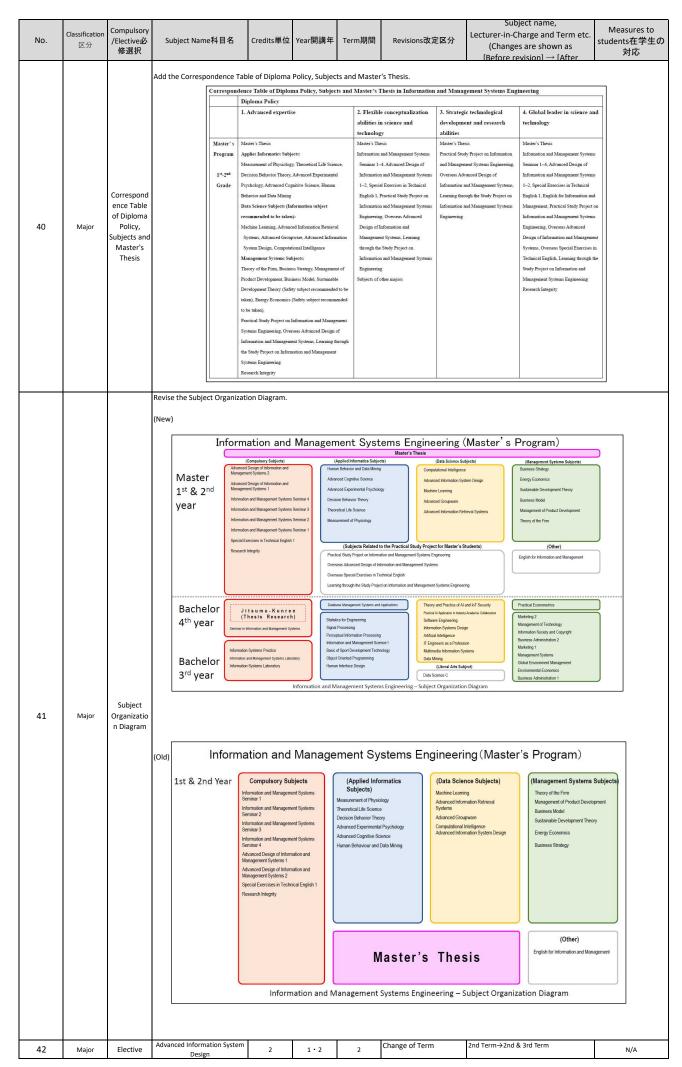
No.	Classification 区分	Compulsory /Elective必 修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After	Measures to students在学生の 対応
Master'	s Progran	n (Electii	rcal, Electronics and	d Inform	ation Eng	gineering			
27	Major	Discipline	Revise the 3 cources of Information, Telecomm	unication a	٠,	•	•	ices and Light Wave Control Eng	ineering and
28	Major	Plan of Thesis Research Guidance	The master's thesis will be based of acceptance or rejection of each the The standard schedule for subject- [1] Research Laboratory Assignmer- (NUT Graduates> Second term of 14- (NOn-NUT Graduates> After enroll [2] Schedule (For Students Enrollin Master's Program, First Year April: Deciding on the research top Students consult with their acaden April to June: Submission of the Research students will develop a research pl When planning is complete, each supervisor will prepare a "Research student. From April onwards: Conduct reses Students will carry out research in provide guidance based on their pl March: Interim presentation and a Master's Program, Second Year April: Review of the research april: Neview of the research students. From April onwards: Conduct reses Students will review their research After reviewing the plan, each students will carry out research in provide guidance based on their pl November: Preliminary screening. End of November to Early December of November: Deciding on the research plan, to the Beginning of Master's thesis (Prossation of the Research plan, the academic scontent, the "Research Guida From September: Deciding on the research plan, the academic Scothest will carry out research in Master's Program, First Year September: Deciding on the research plan, the academic Scothest, the "Research Guida From September onwards: Costudents will carry out research plan, the academic Scothest, the "Research Guida From September: Review of the research plan, the academic Scothest, the "Research Guida From September onwards: Costudents will carry out research plan, the academic Scothest, the "Research Guida From September to October: Subm Students will review their research plan, the academic Scothest, the "Research Guida From September onwards: Costudents will review their research plan, the academic Scothest, the "Research Guida From September onwards: Costudents will review their research plan, the academic Scothest, the "Research Guida From September onwards: Costudents will review their res	in the consolidates is will be evaluated in the third undergot in the third undergot in April and Codician in the third undergot in April and Codician in Guidance Plan and together with tudent will outline an Guidance Plan in Guidance in	pletion procedur graduate year er's program condetermine the chitheir academic ine the proposal in and submit it t in the research pl e master's thesis co review their re with their acade the proposal in in in and submit it t in the research pl e master's thesis co review their re with their acade the proposal in in in and submit it t in the research pl thesis of the Application sion of the maste tember and Co co control in the color in the research Plan ther with their will outline the la prepare a "Re la be clarified to co control in the mast research Plan together with the outline the pr la prepare a "Re la be clarified to co ch noe with the re in the pr la prepare a "Re la be clarified to co ch noe with the re ince on their pr is series on their pr is series on their pr is series on their series on the series	trict screening cries is as follows: supervisors. in a "Research Plot of the Program Cries" an. The students (2 examiners) search topics. mic supervisors. in "Research Plan" of the Program Cries and the proposal in a desearch Guidar of the student. sesearch plan. Togress. ter's thesis (2 cries and the Program Cries and the P	an", and submit it to the academ air. After the Program Chair of will undergo periodic checks of will undergo examiners. "Research Plan" and submit it to the students will undergo examiners) "The students will undergo examiners of the plan" and submit it to the students will undergo will will undergo	mit it to the academic supervisor. Based the Program Chair. After the Program Chair. After the Program Chair to the Academic supervisor. Based or the Program Chair. After the Program Chair.	ch plan, the academic an" will be clarified to the opervisors, who will plan, the academic lan" will be clarified to the opervisors, who will land to the opervisors who will land to the student's chair confirms its land the student's land the student's chair confirms its land the student's land the

No	sification 区分	Compulsory /Elective必 修選択	Subject Name科[目名 Credits単位	Year開講年	Term期間	Revisionsi	改定区分	Subject Lecturer-in-Charg (Changes ar [Before revisi	e and Term etc. e shown as	Measures to students在学生 対応
29 N	Major	Correspond ence Table of Diploma Policy, Subjects and Master's Thesis	<u> </u>	I SAN TONNEL SANGENOS	Forum Motion Commol and A Energy, Advanced Course for A, Advanced Course for Softy only set of the Softy of the Softy In Softy only set of the Softy In Softy only set of the Softy In Softy only set of the Softy In Softy	and Master's T I (Information subject recomm Mechanics (Safey subject to Convents (Safey Safey) Safey Safey) Safey S	needs in Electric anded to be taken), recommended to be taken), recommended to be taken), recommended to be taken, recom	al, Electronics 2 2. Flexible conceptualizat abilities in scie and technolog Markev These main on Electricia II and Information II Electronics and Training the Study Propert on Electricia Electronics and Informat Electronics and Electronics and Electronics Electronics Electronics Solipies of educ majors Solipies of educ majors	and Information Engine 3. Strategic technological development and second and	4. Global leade science and technology Matter's Thereit Sensian on Electrical, Electronia Technology Matter's Thereit Sensian on Electrical, Electronia Technology, and Advantage Engineer. Technology English 1. Special Exercise in Technology English 2. Special Exercise International Engineering 2. International English 2. Part Sensian English 2. Special Exercise Electronic Electronics and theory of the Electronic Electronics and Electronics an	protects of F-TV, cal sin se and Project del section d

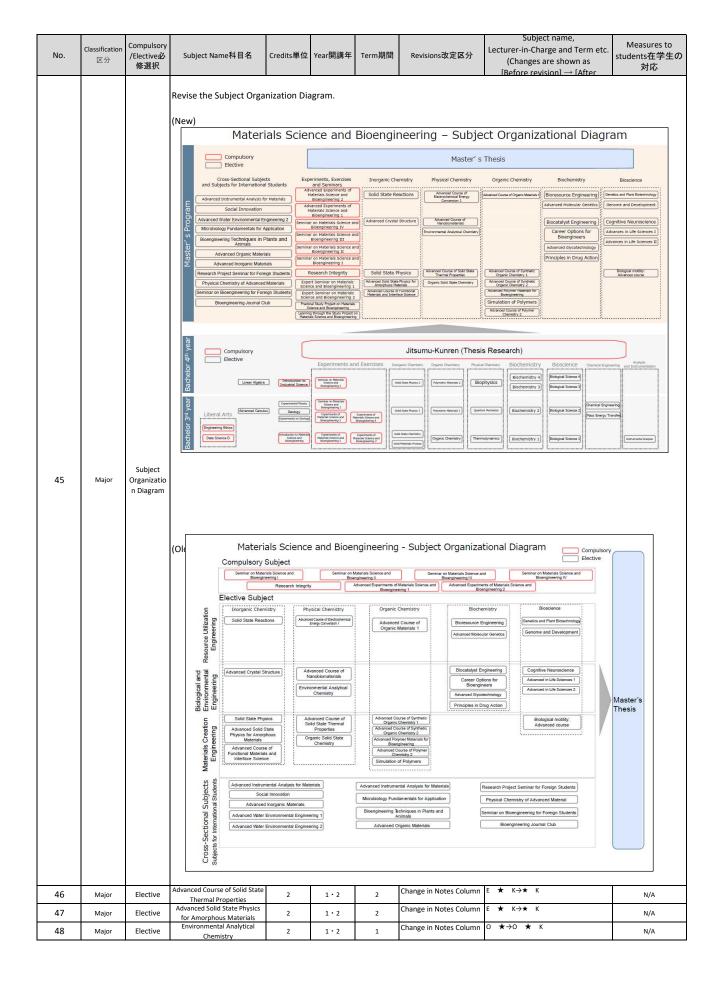


No.	Classification 区分	Compulsory /Elective必 修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject name, Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After	Measures to students在学生の 対応
31	Major	Elective	Energy Conversion and Control Engineering	2	1 • 2	1	Change of Subject Name	Energy Conversion and Control Engineering→Advanced Power Electronics	Students who have earned credits for Energy Conversion and Control Engineering cannot take this subject.
32	Major	Elective	Semiconductor Devices	2	1 • 2	1	Change of Term	1st Term→2nd Term	N/A
33	Major	Elective	Advanced Information and Communication Networks	2	1 • 2	2	Change of Term	2nd Term→1st Term	N/A
34	Major	Elective	Advanced Engineering for Nonlinear Circuit	2	1 • 2	1	Change in Notes Column	E A K→A K	N/A
35	Major	Elective	Advanced Digital Signal Processing Systems	2	1 • 2	1	Change in Notes Column	O A K→O A I K	N/A
36	Major	Elective	Advanced Neural Engineering	2	1 • 2	1	Change of Term Change in Notes Column	1st Term→2nd Term E A K→A K	N/A
37	Major	Elective	Biomedical Sensing	2	1 • 2	2	Newly-Established	Hirasawa O	Students who enrolled in and before AY 2024 can take this subject.
38	Major	Elective	Data Analysis	2	1 • 2	2	Newly-Established	Harakawa E I ★	Students who enrolled in and before AY 2024 can take this subject.

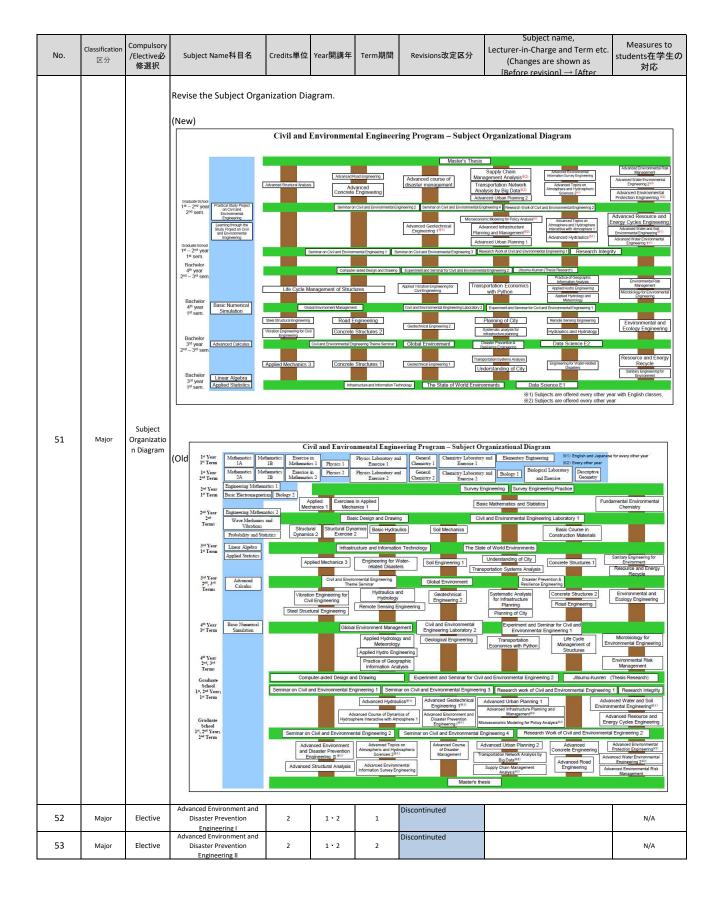
								Cubicat name	•
	Classification	Compulsory						Subject name, Lecturer-in-Charge and Term etc.	Measures to
No.	区分	/Elective必 修選択	Subject Name科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	(Changes are shown as	students仕字生の
								[Before revision] → [After	対応
Master's	s Prograr	n (Inforn	nation and Manage	ement Sy	stems Er	ngineerin	g)		
			Revise the Plan of Thesis Research	Guidance.					
			The standard schodule for subject	taking and some	alatian neasadure	as for students w	ika samulata tha neggram in t	March is as follows:	
			The standard schedule for subject (1) Research Laboratory Assignme	-	pietion procedur	es for students v	ino complete the program in i	March is as follows:	
			<nut graduates=""> Second term of</nut>						
			<non-nut graduates=""> After matri (2) Schedule (For Students Complete)</non-nut>		naster's program	1			
			M1						
			April: Deciding on the students' ac April: Deciding on the research to		ors				
			Students consult with their acader	mic supervisors t	o determine the	ir research topic	š.		
			April to July: Development of the Students receive guidance from the		pervisors on rese	earch methods. li	terature search methods, and	literature reading comprehension methods. Ti	ne students will organize
			the previous research, and develo	p a research plai	n together with t	heir academic su	pervisors.		-
								demic supervisor. Based on the student's resear confirms its content, the "Research Guidance P	
			student.	an Caldanice Flan	and submit it t	o the riogram c	ium / iter the mogram chan c	to contemp the mescaren calculates	ian win be clarified to the
			From July onwards: Conduct resea Students will carry out research in		h the research n	an			
			· ·				nd investigations in order to e	establish research methods. Through consultati	ons with the academic
			supervisors, the students will revie						avidones en the
			experimental/investigation metho			ss by their acade	mic supervisors. Based on the	eir progress, the students will receive research	guidance on the
					nic supervisors o	n how to prepar	e their master's thesis, such as	s the structure of the thesis, preparation of figu	ires and tables, and
			organization and citation of refere M2	ences.					
			April: Review of the research topic						
			Students consult with their acader April to July: Review of the research		o review their re	search topics.			
			Students will review their research	h plans together					
								nic supervisor. Based on the student's research confirms its content, the "Research Guidance P	
			student.						
		Plan of	July to August: Interim presentation November: Preliminary screening			supervisors will	provide guidance on presenta	ation methods.	
39	Major	Thesis Research	End of November to Early Decemb			n Form for Thesis	Screening for Master's Degre	ee and other documents	
		Guidance	(3) Schedule (For Students Enro	lling in Septemb	er and Comple	ting in August)			
			M1 September: Deciding on the stu	dents' academi	r sunervisors				
			September: Deciding on the res		e supervisors				
			Students consult with their acad			their research	topics.		
			September to October: Develop Students receive guidance from			research metho	ods, literature search metho	ds, and literature reading comprehension m	ethods. The students will
			organize the previous research,			-			
								he academic supervisor. Based on the stude e Program Chair confirms its content, the "R	
			will be clarified to the student.						
			From October onwards: Conduc Students will carry out research		with the recear	h nlan			
			· ·				nts and investigations in ord	der to establish research methods. Through	consultations with the
			academic supervisors, the stude						
			experimental/investigation met			ogress by their	academic supervisors. Based	on their progress, the students will receive	research guidance on the
					demic superviso	ors on how to pr	epare their master's thesis,	such as the structure of the thesis, prepara	tion of figures and tables,
			and organization and citation of M2	f references.					
			September: Review of the resea	rch topic					
			Students consult with their acad			eir research topi	cs.		
			September to October: Review of Students will review their resear			ademic supervi	sors.		
			After reviewing the plan, each s	tudent will outl	ine the proposa	l in a "Research	Plan", and submit it to the a	academic supervisor. Based on the student's	
			academic supervisor will prepar will be clarified to the student.	e a "Research G	Guidance Plan" a	and submit it to	the Program Chair. After the	e Program Chair confirms its content, the "R	esearch Guidance Plan"
			December to January: Interim p	resentation and	d assessment. T	he academic su	pervisors will provide guidan	nce on presentation methods.	
			March to April: Preliminary scre	ening of the ma	ster's thesis				
			Early April to Mid-May: Submiss Mid-June to Early July: Submissi					other documents se characters or 250 English words)	
			Master's thesis presentation				, _,_,_,		
			Master's thesis screening and fi		1				
	l .	·	(4) Presentations at Scientific Co	omerences					



No.	Classification 区分	Compulsory /Elective必 修選択	Subject Name科		Year開講年	Term期間	Revisions改定	(CI	Subject name, r-in-Charge and Te nanges are shown ore revision1 → [A	as	Measures to students在学生の 対応
/laster	's Progran	n (Mater	ials Science a	and Bioengine	ering)						
43	Major	Plan of Thesis Research Guidance	acceptance or rejection scientific basis. The standard schedule i program in August (stur Master's Program, First April to May: Deciding to Students consult with it April to July: Developm Students receive guidat the previous research, is submit it to the academ Program Chair confirms From July onwards: Cor Students will carry out 1 During M1, the student their academic supervisor, the student their academic supervisor, the student will april to July: Review of Students will program. Master's Program, Secc April to May: Review of Students consult with it April to July: Review of Students will review the the academic supervisor Chair confirms its conte	be based on the consolidate of each thesis will be evaluated for subject-taking and complete the subject taking and complete the subject taking and complete the subject taking and complete the subject to the subject taking and the subject taking and develop a research plannic supervisor. Based on the sits content, the "Research duct research in accordance with subject to subject to the subject	o determine the pervisors on ress in together with It is student's resea Guidance Plan" in the research piucting preliminary is, the student's using a dispersion or review their rewards or evident the preliminary is, the student's using what to prepare the sessment or eview their rewards with their acade sesearch plan, the plan" will be clim for Thesis Scr	es for students v ir research topic earch methods, li cheir academic su rch plan, the aca will be clarified t lan. ry experiments an will receive resea g the established eir master's thesi esearch topics. emic supervisors. a cademic super arified to the stu eening for Maste	iteria, such as the in who complete the provision of the provisors. When pladed in supervisor will not be student. After reviewing the visor will prepare a 'debrt. In 's Degree and othe 'r' Suegree 'r' Suegree and othe 'r' Suegree 'r'	corporation of creative organi in March is as for the complete, and literature renning is complete, eac ill prepare a "Research order to establish rese propriate. The student experimental/investig and consolidate their rare of the thesis, prepare of the thesis, prepare plan, each student will plan, each student will a grant plan plan, each student will a grant plan plan, each student will a grant plan plan plan plan plan plan plan plan	e ideas and formulation ollows: (This also applies adding comprehension ment to the following comprehension ment to the following comprehension ment to the following comprehension methods. Through s will undergo periodic cation methods and data esearch findings in the matter of figures and tables outline the proposal in outline the proposal in	of conclusion s to students we nethods. The s he proposal in mit it to the F consultations checks on the analyses. The master's thesis ples, and organ a "Research F	students will organize a "Research Plan", ar Program Chair. After t is with the academic ir research progress b a cademic supervisor s. Students will receiv nization and citation of
44	Major	Correspond ence Table of Diploma Policy, Subjects and Master's Thesis	Correspond I. Master's M. Program S. S. Program S. S. A. A. A. A. A. B.	dence Table of Diploma dence Table of Diploma Pol dence Table of Table dence Table denc	stal Structure, Solid Course of Function I Energy Course of Advanced Course of als 1. Advanced Course of als 1. Advanced Course of als 1. Advanced Course of including the Course of subject recommend Molecular Genetics, lology, Principles in 1 seenome and Develop iences 2. Biological Materials, lication, Bioengine ara on Bioengineerin unced Water Environ and Chemistry of Ad rials, ioongineering 1—4, E	d Master's Thesi State Physics, Advan al Materials and Inter 1, Advanced Course of Solid State Therma area of Synthetic Orga anneed Polymer Mate ed to be taken), Adva Biocatalyst Engineen Drug Action (Safety i ment, Cognitive Neu action and Techniques in I g for Foreign Studen mental Engineerin ig vanced Materials, A xxpert Seminar on Mz	s in Materials Science seed Solid State Physics face Science of Sanobiomaterials, 1 Properties, Organic nic Chemistry 1, ritals for Bioengineering, need Course of Polymer ting, Cureer Options for subject recommended to oocience, Advances in unue, Social Innovation, lants and Animals, s. Research Project Advanced Inorganic terials Science and	2. Flexible conceptualization abilities in science and technology Master's Thesis Martines and the science and technology Master's Thesis Martines Science and Bioengineering 1-2. Seminar on Materials Science and Bioengineering 1-4. Exper Seminar of Materials Science and Floraction of the 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	3. Strategic technological development and research abilities 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 durough the Study Project on Materials Science and Bioengineering and Study Project on Materials Science and Bioengineering Bioengineering	4. Global lead to science and teck science and teck science and teck science and teck science and Bioengineering la Bioengineering Research Integrit	chnology erials 4, Expert erials 2, ryoject on e and Learning y Project ence and



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No.	Classification 区分	Compulsory /Elective必 修選択	Subject Nam	ne科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Lecturer-in-Charge (Changes are s	and Term etc. shown as	Measures to students在学生の対応
Master'	s Prograr	n (Civil a	nd Enviror	mental	<u> Engineer</u>	ing)			[Before revision	ı] → [After	7370
Master'	Major	Plan of Thesis Research Guidance	Revise the Plan of The master's thesis Students are encouded. O Standard Schediffirst Year April: Deciding on Students consult when planning is supervisor will prestudent. The students will carry During M1, the students will carry During M1, the students will carry During M1, the students will use experimental/inve After reviewing the supervisor. He students will reviewing the supervisor will prestudent. In M2, students will reviewing the supervisor will prestudent. In M2, students will reviewing the supervisor will prestudent. In M2, students will reviewing the supervisor will prestudent. In M2, students will reviewing the supervisor will prestudent. In M2, students will reviewing the supervisor will prestudent. 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No.	Classification 区分	Compulsory /Elective必 修選択	Subject Name科目名	i Credits単位	Year開講年	Term期間	Revisions改	定区分 (C	Subject name, er-in-Charge and Term et Changes are shown as fore revision] → [After	c. Measures to students在学生の対応
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63	Common	Objectives of the Common Subjects	(New) In Nagaoka who are ade global expar Conferment (Old) In order to coprogram-spetechnology,	University of the control of the con	information techno hnology. To this end subjects are offered ranced leading engir tise and technical sk	ter's Program logy, have acc I, the followin d to students neers with the cills, as well as pment abilities	quired a safety g three items in all majors to practical and the following s, and global e	human resource develop y mindset, and possess ad have been set as attainm o facilitate their acquisitio creative abilities to bring 3 abilities and qualities: n ngineer leadership skills.	vanced practical and o ent targets in the Dipl n of the abilities and o about global technolo nultifaceted and flexik	creative abilities the oma Policy (DP, or qualities related to gical development ole thinking abilities	at can facilitate the Policy on Degree these targets. , NUT aims to instill s in science and
64	Common	Subject Organizatio n	three items OFlexible th A. Ability to B. Ability to B. Ability to B. Ability to C. Trained to OStrategic t D. Possess E. Ability to H. Ability to H. Ability to H. Ability to J. Includes The univers Subjects ind Managemer (Old) The commo parentheses OMultifacet A. Ability to B. Ability to C. Trained t D. Possess E. Ability to F. Trained t D. Hospits G. Ability to H. Ability to	n subjects a of DP. sinking ability outilize the ocomprehe to understa technologic, the language oconsider the handle of community of the comprehe to understa the comprehence of the language oconsider the language of community of the language of th	are organized into the ties in science and to concepts and technology from the concept and and conceptualization and and conceptualization and in the effects of technological development and ge and logical skills in the effects of technological development and in the effects of technological development and international competition multiple groups the subjects related affety" in the remarks of Attached are organized into the ecorresponding un dible thinking abilities concepts and technology from the effects of technology from the effects of technology management and conceptualization and development abilities and logical skills in the effects of technology management and conceptualization and the effects of technology work within a ternational competition multiple groups the subjects related triks of Attached Tab	echnology (No inques of math the perspect te combined to research abilities (No. 4 of DF gy in English. team with an tive activities (A to I). To Information Inf	o. 2 of DP) nematics and rives of life, pe echnologies in ities (No. 3 of in the basis for and environr arch skills that p) international fairly as an or in, Economics it Table are the subjects relate of groups to su and master's in the basis for in, environment an interpret ti international fairly as an or international fairly as an or international fairly as an or and Managen intersects related to	ople, and society. nvolving multiple specializ DP) r understanding, thinking, ment. can interpret trends in gl perspective. ganizational member. and Management, and sa e subjects related to safet ed to Economics and Man pport the development o' programs diploma policies (B1, M2) ematics that support techr ople, and society. nvolving multiple specializ r understanding, thinking, t, and culture. rends in global society and	ed fields. expression, and dialo obal society and indus fety as recommended y and ones indicated a agement. These subje of the aforementioned (Degree Conferment nology. ed fields. expression, and dialo d industries. mended subjects to leed as "Economics and	gue. stries. subjects to learn a sa "Information, Ec cets are elective and abilities and qualit Policies 1–4). gue. earn as engineers. 1 Management" in ti	is engineers. The onomics and distudents are strongly les. Information in
65	Common	Correspond ence Table of Diploma Policy, Subjects and Master's Thesis	Add the Cor	Corresponde D 2. al te C Master's M Program 1**.2**ad year	ce Table of Diploma ence Table of Diploma biploma Policy Flexible conceptualizat bilities in science and schnology formion Subjects fodern Mathematics, The of Mathematical Analysis Sports Bio-mechanics, Sc Welfare, Introduction of Cognitive Science, Languand Thought, Advanced Psychology	Policy and Subji ion 3. Stratege developm abilities Ory Advances Advances Security Technolo large Energy at Advances Practical Training		ing. Technological Englismation d Analytical Reasoning Fundamental English Presentation Understanding of Otto	science and technology sh, English for Science and For Academic Purposes, g and Presentation, se and Presentation, n for Graduate Students, Skills, Language and	Special Subjects for International Students 1-1 & 1-2, Japanese for Graduate Students 3-1 & 3-2, G Affairs of Japan for G Students 1-1 & 1-2	apanese 2-1 & duate eneral
						Innovatio outline of SDGs -re	ment and SDGs, C in and Creativity, Intellectual Prop cognizing limitati s-, Introduction to ctice	An Diversity, Role of Cr erty, Development in Ente ons and International Relation	ills Considering from eativity and Leadership exprise and Business, ns. SDGs -recognizing enges, Introduction to the		

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	Measures to students在学生の 対応
66	Common	curriculum table	Add a description of the subject: (New) [Symbols in the Notes Column] O: Recommended to be taken in E: Conducted during even-numb O: Conducted in Japanese durin -: Conducted in Japanese durin -: Conducted in English -: Conducted in English files -: Conducted in English files -: Conducted in English files -: SDG Professional Course stud K: Industry-Associated Subject for The subjects indicated below are Information Safety Economics and Management (Old) [Symbols in the Notes Column]	or the first year of ered years according goven-numbers and English or SDG Profession the first year ered years according godd-numbers are strong of the first year ered years according godd-numbers are strong or Teacher's Lice and Strong goven-number and English or SDG Profession or Teacher's Lice and English or SDG Profession or Teacher's Lice according to Teacher's Lice are strong or Teacher's Lice are successions are strong or Teacher's Lice are successions.	of Master's Progording to the Rei red years and in led years and in led years are strongly of Master's Proording to the Rei red years and in led years and y	gram iwa Calendar wa Calendar wa Calendar English during o idents take this subject on ingly recommen iwa Calendar iwa Calendar English during o idents iwa Calendar	even-numbered years accord ct nded to take. odd-numbered years accord even-numbered years accord	ling to the Reiwa Calendar	
67	Common	Elective	Modern Mathematics	2	1 • 2	2	Change in Notes Column	K→K Information	N/A
68	Common	Elective	Theory of Mathematical Analysis	2	1 • 2	1	Change in Notes Column	K→K Information	N/A
69	Common	Elective	Advanced Business Management	2	1 • 2	2	Change of Term	2nd Term→1st Term	N/A
70	Common	Elective	Compliance of Corporation	2	1 • 2	1	Discontinuted		N/A

No.	Classification 区分	Compulsory /Elective必 修選択	Subject Nar	me科目:	名 Credits単位	立 Year開講年	Term期間	Revisions改定区分	Subject n Lecturer-in-Charge (Changes are [Before revision	and Term etc. shown as	Measures to students在学生の 対応
Ooctora	l Progran	n (Energy	/ Engineer	ing)							
71	Major	Plan of Dissertation Research Guidance	The standard so (1) Research La Decided at the (2) Schedule D1, April: Decid Students consu D1, April to July Students receiv The students when planning research plan, to content, the "R D1, From July o Students will car The students w guidance on the Subsequently, s In addition to refor external preform D2 onwar Through consul After reviewing research plan, to content, the "R The interim pre Degree Applica End of Novemb End of January in the content of Ja	chedule borator time of time o	y Assignment tentative acceptant tentative acc	n and completion and completion are after passing the revisors to determine the revisors to determine the revisors to determine the revisors to determine the revision and the revision and the received in th	ors on research proposal in a sesearch plan. The structure of the students and analysis attraction from draft scientification from the students with the stu	th methods, literature sear rch plan together with thei "Research Plan", and sub- ince Plan" and submit it to by their academic supervise es. using the established resea their academic superviso c papers, and presentation ll review their research tog sesearch Plan", and submit ance Plan" and submit it to	ch methods, and literal racademic supervisors mit it to the academic sthe Program Chair. Aft pors. Based on their program chair as on other aspects, surmethods. It to the academic sup the Program Chair. Aft program Chair.	ture reading comp s. supervisor. Based ter the Program C gress, the student ch as how to prep ervisor. Based on ter the Program C	orehension methods on the student's hair confirms its is will receive researc are figures and table the student's hair confirms its
72	Common	Correspond ence Table of Diploma Policy, Subjects and Doctoral Dissertation	-	Orrespon Doctoral	ogram Energy Science 1 & 2 Advanced Thermal Energy Engineering, 11.3rd Engineering for Fluid Energy, Advanced En		Doctoral Diesergy Science Advanced I Engineering Advanced I Mechatroni Electrocher Superconduction of Ceramic Er and Advanced I Science and Decarboniz for Plasma Engineering Applied Nu Environmen Bem Engineering Ceramic Er and Applied Nu Environmen Bem Engineering Vibration E	issertation in Energy Engineeri to pioneer unexplored areas	3. Giving back to society through research findings Doctoral Dissertation Practical work for project leader education Researcher Ethics	4. Leadership to gurescarch and development Doctoral Dissertation Practical work for projleader education Researcher Ethics	
73	Major	Elective	Advanced Eng Sound and Vibr Cont	ration En		1~3	1	Newly-Established	Kobayashi(Y)		Students who enrolled in and before AY 2024 can take this subject.
74	Major	Elective	Advanced Nuc Engine		tem 2	1~3	2	Newly-Established Takezawa 2			Students who enrolled in and before AY 2024 can
75	Major	Elective	Practical work		ject 3	1~3	1~3	Newly-Established	Staff		Students who enrolled in and before AY 2024 can take this subject

No.	Classification 区分	Compulsory /Elective必 修選択	Subject Name和	4目名 (Credits単位	Year開講年	Term期間	Revisions改定区分	Subject nam Lecturer-in-Charge an (Changes are sho [Before revision] -	d Term etc. own as	Measures to udents在学生の 対応
Doctora	l Prograr	n (Inforn	nation Science	ce and C	Control	Engineer	ing)				
76	Major	Plan of Dissertation Research Guidance	cErrollees from outside! academic supervisor (Oci (2) Schedule (For Student D1, April: Deciding on the April: Deciding on the res Students consult with the April to July: Developmes Students receive guidant when planning is comple prepare a "Research Guid From April onwards: Con Students will carry out re students will receive rese D2, April: Review of the April to July: Review of the Students will review the Holling to July: Review of the Students will review the April to July: Review of the Students will review the Holling to July: Review of the Students will review the Students will review the Holling to July: Review of the Students consult with the April to July: Review of the Students will review the Students will review the April to July: Review of the Students will review the After reviewing the plan, a "Research Guidance Pla God October to End of End of November to Earl and of January: Submissi (3) Schedule (For Stude D1, September: Decidin September: Decidin Students consult with th September to Novemb Students will review the Students will carry out progress, the students Students will review the Students consult with th September: Review Students consult with September: Review Students consult with th September: Review Students will review th After reviewing the pla supervisor will prepare student. November: Interim pre The interim presentation D3, September: Review Students will review th After reviewing the pla supervisor will prepare student. November: Interim pre The interim presentation D3, September: Review Students will review th After reviewing the pla supervisor will prepare student. April to Early May: Prel The April to Early May: Prel	Assignment tudents: Decide a total content tudents: Decided a tober, February to the February	ed at the time of time	entative acceptance ors termine their rese- termine their research in their academic supe- termine their research plan. The tental/investigation view their research their academic superpoposal in a "Rese am Chair. After the de doctoral disearch of their academic su proposal in a "Rese am Chair. After the de doctoral in a "Rese am Chair. After the de doctoral in a "Rese and their academic su proposal in a "Rese and in a "Res and in a	e after passing the after passing the after passing the arch topics. In the passing the archivistria, the archivistria and the the Program archivistria, and the the Program Chair coin (Student Red during the first yet topics. In the passing the archivistria archive the archivistria archive the archivistria archive the archive	submit it to the academic supervisonfirms its content, the "Research acarch Presentation") sear after enrollment in the doctor submit it to the academic supervisonfirms its content, the "Research Screening for Doctoral Degree, dist (approximately 2,000 Japanese it (approximately 2,000 Japanese its.") s. diterature search methods, and upervisors. l'an", and submit it to the academ chair. After the Program Chair contents are the program contents are sufficient of the academ chair. After the Program Chair contents are the program Chair contents are the program Chair contents. The program Chair contents are the program Chair contents are the program Chair contents are the program Chair contents.	reading comprehension methods visor. Based on the student's research Guidance Plan" will be dearth progress by their academic or. Based on the student's resear Guidance Plan" will be clarified all program. or. Based on the student's resear Guidance Plan" will be clarified all program. or. Based on the student's resear Guidance Plan" will be clarified is all program. or. Based on the student's resear Guidance Plan" will be clarified is all program. or. Based on the student's resear Guidance Plan" will be clarified is all program. or. Based on the student's resear Guidance Plan" will be clarified is sertation summary, and Plagiari characters or 500 English words), which is the content of the series of the doctoral program.	with the Program Ch. The students will orgalearch plan, the acader larified to the student is supervisors. Based or chiplan, the academic to the student. The plan, the academic to the student. The plan academic to the student. The plan academic supervision academic supervisi	anize the previous nic supervisor will their progress, the supervisor will prepare supervisor will prepare or Dissertation udents will organize tan, the academic will be clarified to the visors. Based on their the academic will be clarified to the
77	Common	Correspond ence Table of Diploma Policy, Subjects and Doctoral Dissertation	Add the Correspond Correspond Doctoral Program 1 ¹⁸ -3 ¹⁴ Grade	Doctoral Disse Information St. Advanced Co. Element Analy Advanced Co. Instrumentation St. Advanced Mon Instrumentation Systems Engir Advanced Man Engineering, I. Industry, Advan and Mathemation and Mathemation and Mathemation and Mathematical Machining and Mathematical Mathema	of Diploma I licy implementati retation	on abilities rol Engineering 1 & Advanced Finite System Design, L'Engineering, Advanced Signal and Super-precision pies in Control Theor Advanced Precision of Machine Elemen ment Design Human Society and formatics, Informatic	2 Doctoral Dinformation Advanced of Integration Information Advanced of Integration Information Advanced I Integration Advanced I Industrial Information Advanced I Industrial Information Elements, 6 Society and Information Information Engineerin, Neuroimage course for b Living Syst Management	issertation in Information Sci to pioneer unexplored areas	3. Giving back to society through research findings Doctoral Dissertation Practical work for project leader education Researcher Ethics and Researcher Ethics and Researcher Ethics	4. Leadership to gresearch and development Doctoral Dissertation Practical work for pro- leader education Researcher Ethics	

								Subject name,	M					
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	Lecturer-in-Charge and Term etc. (Changes are shown as [Before revision] → [After	Measures to students在学生の 対応					
78	Major	Elective	Advanced Course of Chaos and Fractals Informatics	2	1~3	1	Discontinuted		N/A					
79	Major	Elective	Advanced Network System	2	1~3	2	Discontinuted		N/A					
80	Major	Elective	Advanced course for Machine and Motor Control	2	1~3	2	Newly-Established	Endo	Students who enrolled in and before AY 2024 can take this subject					
81	Major	Elective	Advanced Living System	Advanced Living System 2 1~3 1 Newly-Established Nishiyama Students of enrolled in before AY take this.										
82	Major	Elective	Advanced Data Science and Management	Advanced Data Science and Management 2 1~3 1 Newly-Established Kumoi Sturent befi										
83	Major	Elective	Sports physiology and engineering	2	1~3	1	Newly-Established	Okushima & Ohashi	Students who enrolled in and before AY 2024 can					
84	Major	Elective	Practical work for project leader education	3	1~3	1~3	Newly-Established	Staff	Students who enrolled in and before AY 2024 can					
Doctora	l Progran	n (Mater	ials Science)						HAKE THIS SHIPLET					
85	Major	Plan of Dissertation Research Guidance	The standard schedule for the (1) Research Laboratory Assig Internal advancement stude Internal advancement stude Internal advancement studers Internal students <a href="Internal students Internal students Internal students <a href="Internal students Internal students <a href="Internal students <a href=" internal="" students"<="" td=""><td colspan="11">Practical work for project leader education 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 3 1</td>	Practical work for project leader education 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 3 1										

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 n Lecturer-in-Charge (Changes are [Before revision	and Term etc. shown as		Measures to dents在学生の 対応	
			Add the Correspondent	ondenc				al Dissertation. Dissertation in Materials Science					
				1. Re	esearch implement	tation abilities	2. Ability t	o pioneer unexplored areas	3. Giving back to society through research findings	4. Leadership to guresearch and development	ide		
86	Common	Correspond ence Table of Diploma Policy, Subjects and Doctoral Dissertation	Doctora Program 1°-3° ^d Grade	Mate Mate Diffir Struc Preci Func Solid Func Chara Devia Adva Design	oral Dissertation irals Science 1.6: 2 tion of Advanced Mat action Physics, Advan- tural Materials Science see Molecular Design, tional Materials Scien 18 tate Chemistry, Adv irals Science tate of Materials ce Engineering, Advan- med Course for Frace ga for Structural Safet	aced Course of Inorga ce, Advanced Course Advanced Organic see, Advanced Organic ranced Course for see, Advanced Physic s, Advanced Optical need Electroceramics ture Control, System ty, Advanced	of Structural M Precise Mole Functional N Solid State C Hunctional N Characteristi Device Engi Advanced C		Doctoral Dissertation Advanced Manufacturing DX System, System Design for Structural Safety, Practical work for project leader education Researcher Ethics	Doctoral Dissertation Practical work for proj leader education Researcher Ethics	ect		
				Adva Manu Engii Wave Cour Comp	neering on Functional unced Interface Science unfacturing DX System neering for Electroma es, Advanced Molecul se for Crystal Engine putational Materials Sessing, Practical work station archer Ethics	ee, Advanced 1, Advanced Control gnetic and Optical ar Robotics, Advance ering, Advanced science, Advanced La	on Functions Interface Sci System, Adv Electromagn Molecular R Engineering. Science, Adv	al Inorganic Materials, Advanced ence, Advanced Manufacturing DX anced Control Engineering for etic and Optical Waves, Advanced obotics, Advanced Course for Crystal Advanced Computational Materials vanced Laser Processing, Practical work eader education					
87	Major	Elective	Advanced course of nondestructive mater characterizaion		2	1~3	1	Discontinuted				N/A	
88	Major	Elective	Advanced Course of Pre Molecular Design I		2	1~3	1	Discontinuted				N/A	
89	Major	Elective	Advanced Course of Pre Molecular Design II	ecise II	2	1~3	1	Change of Subject Name	Advanced Course of Pre Design II→Advanced Co Molecular Design		earne Adva Preci Desig	ents who have ed credits for nced Course of se Molecular in II cannot take ubject.	
90	Major	Elective	Advanced Engineering Sustainable Environme Materials		2	1~3	2	Discontinuted				N/A	
91	Major	Elective	Advanced Interface Scie	ience	2	1~3	2	Newly-Established	Funatsu		enro befo	ents who lled in and re AY 2024 can	
92	Major	Elective	Advanced materials infor	rmatics	2	1~3	2	Change of Subject Name	Advanced materials info Advanced Computation Science		Stude earne Adva infor	ents who have ed credits for nced materials matics cannot tak ubject.	
93	Major	Elective	Practical work for proj leader education	ject	3	1~3	1~3	Newly-Established	Staff		enro befo	ents who lled in and re AY 2024 can this subject	

No.	Classification 区分	Compulsory /Elective必 修選択	Subject Na	ame科目名	Credits単位	Year開講年	Term期間	Revisions改定区分	Subject nam Lecturer-in-Charge and (Changes are sho [Before revision] =	d Term etc. wn as	Measures to students在学生の 対応
Doctora	l Prograr	n (Civil E		ng and Bio		ring)					
94	Major	Plan of Dissertation Research Guidance	O Standard Sch. First year, April: April to July: Det When planning is supervisor will p student. Second year, Ap April to July: Rev After reviewing supervisor will p student. September: Inted Students will care to July: Rev After reviewing supervisor will p student. September: Inted After reviewing supervisor will p student. September to Dubissertation subject of July: Rev After reviewing supervisor will p student. September to Dubissertation as September to Dubissertation and September to Dubits of S	edule for Doctoral Deciding on the st ciding on the resea is complete, each s orepare a "Researc rds: Conduct resea rry out research in wril: Review of acade view of the resear the plan, each stuo repare a "Researc erim presentation II: Review of acader view of the resear the plan, each stuo repare a "Researc erim presentation II: Review of acader view of the resear the plan, each stuc prepare a "Researc erim presentation II: Review of acader view of the resear the plan, each stuc prepare a "Researc erember: Submissi mmary (approximal ecember: Prelimin uary: Submission o ratation published papers i Iishments (disserta trifying research in certifying highest e uary: Doctoral diss ion ceremony edule for Doctoral ember: Deciding on cember: Deciding is complete, each s orepare a "Researc or onwards: Conduc rry out research in ptember: Review of ecember: Review	Dissertation Scr. undents' academore the form of the following of the foll	ic supervisors evelopment of the methe proposal "and submit it to the proposal in a "and submit it to proposal in	e research plan in a "Research Po the Program C an. pics 1 "Research Plan to the Program C cs 1 "Research Plan to the Program C doctoral dissert 100 English wor g tition screening t dy) attion doctorate as, etc. (For Studies as, etc. (For St	rds) (For dissertation doctorate on the academic supervisor as only) Jents Enrolling in September are search plan and submit it to the academiar. After the Program Chair comments of the After the Program Chair comments of the After the Program Chair comments. After the Program Chair comments of the After the Program Chair comments of the After the Program Chair comments. After the Program Chair comments of the After the A	c supervisor. Based on the studentifirms its content, the "Resea or supervisor. Based on the studentifirms its content, the "Resea or supervisor or sand early completion doctoral or supervisor. Based on the studentifirms its content, the "Resea or supervisor. Based on the supervisor. Based on the supervisor. Based on the studentifirms its content, the "Resea or supervisor. Based on the studentifirms its content, the "Resea or supervisor. Based on the studentifirms its content, the "Resea or supervisor. Based on the studentifirms its content, the "Resea or supervisor. Based on the studentifirms its content, the "Resea or supervisor. Based on the studentifirms its content, the "Resea or supervisor. Based on the studentifirms its content, the "Resea or supervisor. Based on the studentification is supervisor.	dent's research prich Guidance Pla dent's research prich Guidance Pla tes) tudent's research prich Guidance Pla tes) dent's research prich Guidance Pla dent's research prich Guidance Pla	lan, the academic in" will be clarified to the lan, the academic in" will be clarified to the lan, the academic in" will be clarified to the in will be clarified to the lan, the academic in" will be clarified to the lan, the academic in" will be clarified to the
95	Common	Correspond ence Table of Diploma Policy, Subjects and Doctoral Dissertation	Do Pr	octoral Doctoral I. Researd 1. Researd 1. Researd 1. Civil, Env Engineeria Advanced Technolog	ble of Diploma Policy ch implementati Dissertation ironmental, and I ng 1 & 2 Lecture on Disastion Hybrid Material Estimation of M ing Life-time steel structural e Urban Transport Urban and Regic Hydrospheric Er Course of Disast Geotechnical En Plant Biotechnoia Neuroengineerit Course of Application Services of Application Course of Application Services of Population Course of Application Services of Population Services of Population Services of Population Services of Application	Policy, Subjects on abilities Siological ster Control and s and Structures aterials Life-time ingineering ation Planning innering gineering er Management gineering only ster of the structures at the structures attributes attribute	2. Ability to p Doctoral Dissection Civil, Environ 1 & 2 Advanced Environ Advanced Con Advanced Con Advanced Con Biochemistry Advanced Con Glycotechnolo Advanced Ste Ion channels a Biorefinery D Genetic Engin Biological sys Advanced Con Environmenta	Dissertation in Civil Engineeric idencer unexplored areas ertation in Engineering general and Biological Engineering genering for Global Environmental Engineering urse of Plant Genetic Engineering urse of Plant Genetic Engineering urse of Glycobiology and Dayy in cell Technology in exploration of the Company of the Com	3. Giving back to society through research findings Doctoral Dissertation ng Practical work for project leader education Researcher Ethics	4. Leadership research and development Doctoral Disses Practical work: leader education Researcher Eth	tation for project n

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	Measures to students在学生の 対応
96	Major	Elective	Applied numerical methods for geotechnical engineering	2	1~3	1	Discontinuted		N/A
97	Major	Elective	Advanced Course of Engineering for Wildlife Management	2	1~3	1	Discontinuted		N/A
98	Major	Elective	Practical work for project leader education	2	1~3	1~3	Newly-Established	Staff	Students who enrolled in and before AY 2024 can take this subject.
Advance	ed Cource	e for Stra	tegic Engineer Pro	motion					
99	Common	Elective	Compliance of Corporation	2	Master 1∼2	1	Discontinuted		N/A
WISE Pr	ogram (C	ourse fo	r the 5-year Integra	ated Doc	toral Pro	gram)			
100	Major	Elective Compulsory	Cultural Intelligence (CQ)	2	1~5	1	Not Conducted in 2024	As shown in the left	N/A
101	Major	Elective Compulsory	Cultural Leadership	2	1~5	2	Not Conducted in 2024	As shown in the left	N/A
102	Major	Elective Compulsory	Social Innovation	2	1~5	2	Not Conducted in 2024	As shown in the left	N/A
WISE Pr	ogram (C	ourse fo	r the Master's Prog	gram and	Doctora	l Progra	m)		
103	Major	Elective Compulsory	Cultural Intelligence (CQ)	2	Master 1~2 Doctor 1~3	1	Not Conducted in 2024	As shown in the left	N/A
104	Major	Elective Compulsory	Cultural Leadership	2	Master 1~2 Doctor 1~3	2	Not Conducted in 2024	As shown in the left	N/A
105	Major	Elective Compulsory	Social Innovation	2	Master 1~2 Doctor 1~3	2	Not Conducted in 2024	As shown in the left	N/A
Applied	Safety E	ngineerir	ng Course						
106	Common	Overview and	Revise the Overview and Objecti (New) Safety has become more import activities of organizations and co goods and services to consumer issues and new technologies, log a widespread need for educatio The Applied Safety Engineering ((Old) Safety has become more import activities of organizations and co goods and services to consumer issues and new technologies, log a widespread need for education	ant than ever b proporations. The s. In this contextical thinking at n and research Course aims to ant than ever b proporations. The s. In this contextical thinking at n and research Course aims to	e continued exist, there is a socilities and creat on safety engin facilitate the acefore due to interest of the continued exist, there is a socilities and creat on safety engin facilitate the ac	stence of orgar ietal need for u ive abilities, as eering. quisition of fur creasingly soph stence of orgar ietal need for u ive abilities, as eering. quisition of fur	sizations and corporations is universities to train individual well as excellent problem-so damental and applied knowl isticated and complex techno- izations and corporations is universities to train individual well as excellent problem-so damental and applied knowl	ologies, large-scale business activities, and so contingent on ensuring safety in the workple so who have in-depth expertise that can be a living capabilities for safety-related problems edge of safety engineering. Sologies, large-scale business activities, and so contingent on ensuring safety in the workple s who have in-depth expertise that can be a living capabilities for safety-related problems edge of safety engineering. Course graduate	ace and providing safe pplied to safety-related s. In other words, there is pociety's demands on the ace and providing safe pplied to safety-related s. In other words, there is

No.	Classification 区分	Compulsory /Elective必 修選択		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	Measures to students在学生の 対応
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[The following is for students enrolled before AY 2021.]

*including students who enrolled System Safety Engineering before AY 2023

Master's	s Prograr	n (Syster	n Safety Engineerir	ıg)					
1	Major	Compulsory	System Safety Study 4	1	1 • 2	2 • 3	Change of Term	2nd & 3rd Term→1st & 2nd Term	N/A
2	Major	Elective	Advanced lecture of robotics	1	1 • 2	2	Change of Term	2nd Term→2nd & 3rd Term	N/A
3	Major	Elective	Advanced lecture on information security	1	1 • 2	1	Change of Term	1st Term→2nd Term	N/A
Doctora	l Progran	n (Inforn	nation Science and	Control	Engineer	ing)			
4	Major	Elective	Advanced Network System	2	1~3	2	Discontinuted		N/A
5	Major	Elective	Advanced course for Machine and Motor Control	2	1~3	2	Newly-Established	Endo	Students who enrolled in and before AY 2024 can
6	Major	Elective	Advanced Living System	2	1~3	1	Newly-Established	Nishiyama	Students who enrolled in and before AY 2024 can
7	Major	Elective	Advanced Data Science and Management	2	1~3	1	Newly-Established	Kumoi	Students who enrolled in and before AY 2024 can
8	Major	Elective	Sports physiology and engineering	2	1~3	1	Newly-Established	Okushima & Ohashi	Students who enrolled in and before AY 2024 can
Doctora	l Progran	n (Mater	ials Science)						
9	Major	Elective	Advanced course of nondestructive materials characterizaion	2	1~3	1	Discontinuted		N/A
10	Major	Elective	Advanced Course of Precise Molecular Design I	2	1~3	1	Discontinuted		N/A
11	Major	Elective	Advanced Course of Precise Molecular Design II	2	1~3	1	Change of Subject Name	Advanced Course of Precise Molecular Design Ⅱ→Advanced Course of Precise Molecular Design	Student who have earned credits for Advanced Course of Precise Molecular Design II cannot take this subject
12	Major	Elective	Advanced Interface Science	2	1~3	2	Newly-Established	Funatsu	N/A
13	Major	Elective	Advanced materials informatics	2	1~3	2	Change of Subject Name	Advanced materials informatics -> Advanced Computational Materials Science	Student who have earned credits for Advanced materials informatics cannot take this subject.
Doctora	l Progran	n (Energ	y and Environment	Science)					
14	Major	Elective	Advanced Engineering for Sustainable Environmental Materials	2	1~3	2	Discontinuted		N/A
15	Common	Elective	Advanced Engineering for Prevention of Natural Disaster	2	1~3	1	Discontinuted		N/A
16	Major	Elective	Advanced Engineering for Sound and Vibration Energy Control	2	1~3	1	Newly-Established	Kobayashi(Y)	Students who enrolled in and before AY 2024 can take this subject
17	Common	Elective	Advanced Nuclear System Engineering	2	1~3	2	Newly-Established	Takezawa	Students who enrolled in and before AY 2024 can
Doctora	l Progran	n (Integr	ated Bioscience an	d Techno	ology)				
18	Major	Elective	Advanced Course of Engineering for Wildlife	2	1~3	1	Discontinuted		N/A
19	Major	Elective	Advanced Course of Chaos and Fractals Informatics	2	1~3	1	Discontinuted		N/A