

3-2. 「整理番号」コード表（英語版）（数字3桁、中分類は英字も可）

大分類	中分類（百の位）		小分類（十の位及び一の位）	
University-wide Open Courses	A	Common Seminar	01	Life science archive seminar for graduate course I
			02	Life science archive seminar for graduate course II
			03	Life science archive seminar for graduate course III
	B	Common Lecture	01	Life science archive common lecture I
			02	Life science archive common lecture II
			03	Life science archive common lecture III
Common Courses	A	Integrated Courses	01	Special Lecture on Frontier Science I
			02	Special Lecture on Frontier Science II
			03	Special Lecture on Frontier Science III
			04	Special Lecture on Frontier Science IV
			05	Special Lecture on Frontier Science V
			06	Special Lecture on Frontier Science VI
			07	Stress Management - to enjoy your student life and your social life
			08	Exercise for Health and Fitness I
			09	Exercise for Health and Fitness II
			10	International Systems Design Workshop
			11	Optimal System Design
			12	System Architecture
			13	Case Study: Social Design and Management
			14	Model Based Project Management
			15	Seminar in Aging Control Design
			16	GSFS Research Internship Through Specified Employment I
			17	GSFS Research Internship Through Specified Employment II
	B	Comprehensive Cooperation	01	Special Lecture on Frontier Science VII
			02	Special Lecture on Frontier Science VIII
			03	Special Lecture on Frontier Science IX
	C	Technical English	01	Special Lecture on Frontier Science X
			02	Special Lecture on Frontier Science XI
	D	Overseas Researches	01	Overseas Researches on Frontier Sciences I
			02	Overseas Researches on Frontier Sciences II
			03	Overseas Researches on Frontier Sciences III
			04	Overseas Researches on Frontier Sciences IV
			05	Overseas Researches on Frontier Sciences V
	E	Proactive Research Commons	01	Workshop on Advanced CAE
			02	Smart Sensing
			03	Introduction to Geospatial Big Data Analysis
			04	Morphogenetic Design Creation Seminar
			05	Workshop of Proactive Research Commons
			06	Business-academia Cooperative Exercise
			07	Proactive Research Commons
	F	World-leading Innovative Graduate Study Program in Proactive Environmental Studies	01	Proactive Environmental Studies I
			02	Proactive Environmental Studies II
			03	Advanced UTSIP
			04	Overseas Exercise in Proactive Environmental Studies I
			05	Overseas Exercise in Proactive Environmental Studies II
			06	Research Internship for Proactive Environmental Studies I
			07	Research Internship for Proactive Environmental Studies II
			08	Transdisciplinary Skills and Theories I
09			Transdisciplinary Skills and Theories II	

			10	Advanced Field Exercise
			15	Critical Thinking Basics - Select concepts, tools and techniques I
			16	Critical Thinking Basics - Select concepts, tools and techniques II
			17	Critical Thinking Skills - Select applications & reflection I
			18	Critical Thinking Skills - Select applications & reflection II
Division of Environmental Studies Common Subjects	A	Environment Management Program	01	Sustainability Perspectives in Environmental Issues
			02	Fundamentals of Environmental Planning
			03	Environmental Business
			04	Environmental Economics
			05	Introduction to Environmental Systems
			06	Fundamentals of Natural Environmental Studies
			07	Introduction to Socio-Cultural Environmental Studies
			08	Business and Finance for Sustainable Development
			09	Special Lecture on Project Management
	B	Integrated Environmental Design Program	01	Urban Design Studio
			02	Natural Environmental Design Studio I
			03	Natural Environmental Design Studio II
			04	Rural Design Studio
			05	Landscape Design Studio
			06	Architectural Structure Design Studio
			07	Integrated Environment Design Theory
			08	Urban Watershed Design Studio
			09	Architecture Design Studio I
			10	Architecture Design Studio II
			11	Natural Environmental Design Studio I
			12	ICT & Multimedia Design Studio
			13	Community Business Design Studio
			14	Urban Watershed Design Studio I
			15	Urban Watershed Design Studio II
	C	Brazil-Japan Collaborative Courses on Naval Architecture and Offshore Engineering	01	Risers and Pipelines
			02	Ocean Renewable Energy
			03	Subsea Well Construction and Petroleum Production Systems
			04	Material and Structural Mechanics
			05	Ocean Fluid-Structure Dynamics
			06	Introduction of Marine Energies and Environments
			07	Efficient Shipbuilding
			08	Design of Ocean System
			09	Systems and Control Technology
10			Maritime Big Data and Satellite Utilization	
11			Economics of Marine Natural Resources	
12			High Speed Vessel Design	
13			Brazil-Japan Internship on Naval Architecture and Offshore Engineering	
D	Minor Program in	01	Seminar on Sustainability Science I	
		02	Seminar on Sustainability Science II	
E	Transdisciplinary Subjects of	01	Introduction to Environmental Systems	
		02	Introduction to Socio-Cultural Environmental Studies	
		03	Special Lecture on Project Management	
A	Basis of Advanced Materials Science	01	Introduction to Advanced Materials Science I	
		02	Introduction to Advanced Materials Science II	
		03	Introduction to Advanced Materials Science III	
		04	Introduction to Advanced Materials Science IV	
		05	Introduction to Advanced Materials Science V	
		06	Introduction to Advanced Materials Science VI	
		07	Introduction to Advanced Materials Science VII	
		08	New Introduction to Advanced Materials Science I	

Department of Advanced Materials Science			09	New Introduction to Advanced Materials Science IV	
			10	New Introduction to Advanced Materials Science VI	
			11	New Introduction to Advanced Materials Science VII	
			12	New Introduction to Advanced Materials Science II	
			13	New Introduction to Advanced Materials Science III	
			14	New Introduction to Advanced Materials Science V	
		B	Physics	01	Optical Properties of Solids A
				02	Optical Properties of Solids B
				03	Magnetism I
				04	Magnetism II
				05	Physics of Quantum Matter
				06	Introduction to superconductivity and superfluidity
				07	Solid State Physics by Soft X-ray and Neutron Spectroscopy
				08	Science of Non-equilibrium Systems
				09	Physics in Quantum Information Technology
				10	Introduction to Biological Physical Chemistry
				11	Introduction to magnetism and spintronics
				12	Strong Correlation Physics
		C	Chemistry	01	Chemistry and Physics of Organic Functional Materials
				02	Soft Matter Physics and Chemistry I
				03	Soft Matter Physics and Chemistry I
				04	Introduction to Biological Physical Chemistry
				05	Solid State Chemistry
				06	Physics of transition metal oxides
		D	Materials Engineering	01	Environmental materials engineering
				02	Physical chemistry for high temperature processes
				03	Non-equilibrium process
				04	High-Temperature Materials Design
				05	Plasma Materials Science
		E	Computational Science · Data Science	01	Computational Science for Many-Body Problems
				02	Information Compression in Computational Science
				03	Computational Physics
				04	Data Compression in Computational Science and Quantum Computing
		F	Interdisciplina ry or Overhead View of Advanced Materials Science	01	Synchrotron Radiation Research
				02	Introduction to Surface Science
				03	Physics of transition metal oxides
				04	Advanced Lecture for Materials Science I
				05	Advanced Lecture for Materials Science II
				06	Plasma Materials Science
				07	Cluster Function Design
				08	Advanced Materials Science
				09	Frontier Materials Science I
				10	Frontier Materials Science II
				11	Introduction of Transdisciplinary Measurement Science
				12	Introduction of Advanced Nano-probes
				13	Practical Advanced Transdisciplinary Measurement Science
				14	Special Lecture on Advanced Materials Science I
				15	Special Lecture on Advanced Materials Science II
				16	Special Lecture on Advanced Materials Science III
				17	Special Lecture on Advanced Materials Science IV
				18	Special Lecture on Advanced Materials Science V
				19	Special Lecture on Advanced Materials Science VI
				20	Nanotechnology in Materials Science
				01	Advanced Materials Science Seminar I A
				02	Advanced Materials Science Seminar I B

	G	Seminar · Special Research	03	Special Research on Advanced Materials Science I A			
			04	Special Research on Advanced Materials Science I B			
			05	Advanced Materials Science Seminar II A			
			06	Advanced Materials Science Seminar II B			
			07	Advanced Materials Science Seminar II C			
			08	Special Research on Advanced Materials Science II A			
			09	Special Research on Advanced Materials Science II B			
			10	Special Research on Advanced Materials Science II C			
			Department of Advanced Energy	A	Space propulsion system	01	Energy Systems in Space
						02	Theory on Energy Conversion
03	Propulsion and Energy Systems						
04	Advanced Energy Conversion						
05	Energy Transfer in Space Applications						
B	Material Science	01		Science and Engineering of Materials Under Severe			
		02		Advanced Composite Materials			
		03		Fracture and Energy			
C	Deep space exploration	01		Dynamics of High Enthalpy Flow			
		02		Introduction to Deep Space Exploration			
		03		Science and Technology of Atmospheric Entry			
		04		Deep Space Exploration Mission Study			
D	Control system engineering	01		Welfare Control Engineering			
		02		Advanced Motion Control Application			
		03		Power System Dynamics			
		04		Advanced Power Systems Engineering			
E	Electrical and Electric Engineering	01		Electric Vehicle Engineering			
		02		Superconductor Technology			
		03		Applied Electromechanical Dynamics			
		04		Electromagnetic Environmental Engineering			
F	Energy and Environment	01		Energy-Environmental Systems Engineering			
		02		Overview of Advanced Electric Energy Systems			
		03		Power System Circuit Analysis			
		04		Energy Electronics I			
		05		Energy Electronics II			
		06		Transportation System Engineering			
G	Nonlinear Science	01		Fundamentals of Plasma Physics			
		02		Fundamentals of Fluid Dynamics			
		03		Nonlinear Theory			
H	Plasma and Fusion Science	01		Plasma Physics and Controlled Nuclear Fusion			
		02		Fusion Energy Engineering			
		03		Plasma Diagnostic Techniques			
		04		Plasma Applications			
		05		Advanced Plasma Physics and Engineering			
		06		Boundary Plasma Science and Technology			
I	Computational Science	01		Introduction to Computational Fluid Dynamics			
		02		High-speed Numerical Simulation			
J	Overall view/Multidis ciplinary view	01		Fusion Science Special Lecture I			
		02	Fusion Science Special Lecture II				
		03	Special Lecture on Advanced Energy Engineering I				
		04	Special Lecture on Advanced Energy Engineering II				
		05	Special Lecture on Advanced Energy Engineering III				
		06	Special Lecture on Advanced Energy Engineering IV				
		07	Applied Transdisciplinary Design				
		08	Seminar in Advanced Energy Engineering I				
		09	Seminar in Advanced Energy Engineering II				
		10	Special Research on Advanced Energy Engineering I				

			11	Special Research on Advanced Energy Engineering II
			12	Special Seminar in Advanced Energy Engineering I
			13	Special Seminar in Advanced Energy Engineering II
Department of Complexity Science and Engineering	0	Complexity Science and Engineering	01	Special Lecture on Complexity Science and Engineering I
			02	Special Lecture on Complexity Science and Engineering II
			03	Special Lecture on Complexity Science and Engineering III
			04	Special Lecture on Complexity Science and Engineering IV
			05	Special Lecture on Complexity Science and Engineering V
			06	Special Lecture on Complexity Science and Engineering VI
			07	Special Lecture on Complexity Science and Engineering VII
			08	Special Lecture on Complexity Science and Engineering VIII
			09	Special Lecture on Complexity Science and Engineering IX
			10	Special Lecture on Complexity Science and Engineering X
			11	Special Lecture on Complexity Science and Engineering X I
			12	Special Lecture on Complexity Science and Engineering X II
			13	Special Lecture on Complexity Science and Engineering X III
			14	Special Lecture on Complexity Science and Engineering X IV
			15	Special Lecture on Complexity Science and Engineering X V
			16	Special Lecture on Complexity Science and Engineering X VI
			17	Elementary Course of Experiments on Complexity Science and Engineering
			18	Seminar on Complexity Science and Engineering I
			19	Seminar on Complexity Science and Engineering II
			20	Special Research in Complexity Science and Engineering I
			21	Special Research in Complexity Science and Engineering II
			22	Plasma Wave Physics
			23	Turbulence-induced Transport
			24	Complex Condensed Matter Physics
			25	Atomistic process of thin film growth
			26	Surface-Solid State Chemistry
			27	Analyses of Complexity in Earth and Planets
			28	Evolution of Earth and Planets
			29	Observations and explorations of the Earth and planets
			30	Nonlinear System Analyses I
			31	Nonlinear System Analyses II
			32	Instrumentation and Information Processing
			33	Theory of Information and Coding I
			34	Theory of Information and Coding II
			35	Advanced Nuclear Fusion Science and Engineering
			36	Practical Exercises in Nuclear Fusion
			37	Complex biological phenomena
			38	Introduction to Data Driven Science I
			39	Introduction to Data Driven Science II
			40	Space and Planetary Environment
			41	Practical Applications for Deep Space Exploration
			42	Haptics
			43	Advanced Data Analysis
			44	Human-Machine System
			45	Advanced Statistical Modeling
			46	Neural circuits
			47	Introduction to plasma physics
			48	Remote Sensing Image Analysis
			01	Breakthrough Now and Then I (Pre-school)
			02	Breakthrough Now and Then II
			03	Bio-Medicine, Drug Discovery
			04	Molecular recognition

Department of Integrated Biosciences	A	Integrated Biosciences	05	Biochemistry of Cell Responsiveness		
			06	Signal transduction		
			07	Molecular mechanisms of adaptation		
			08	Genomic Instability		
			09	Eucaryotic cell biology		
			10	Human Evolutionary Specificity		
			11	Evolutionary genetics		
			12	Control of Biological Function		
			13	Microbe vs Non-Microbe Interactions		
			14	Frontiers in Cancer Science		
			15	Evolutionary genomics		
			B	Basic Biosciences	01	Basic Biochemistry and Molecular Biology
					02	Statistical Analysis for Biosciences
			C	Life Science English	01	Lessons in Writing Scientific Papers in English
					02	Practice in Oral Presentation in English
	D	Life Science Exercise	01	Debate on Ethics in Science and Technology		
			02	Debate on Topics in Science and Technology		
			03	Seminar in Integrated Biosciences		
			04	Research Project Planning		
			05	Advanced Seminar in Integrated Biosciences		
			06	Laboratory Course for Broadened Bioscience Skills		
	E	Special Lecture	01	Frontiers in Molecular Biology I		
			02	Frontiers in Molecular Biology II		
	F	Special Research	01	Research of Integrated Biosciences I		
02			Research of Integrated Biosciences II			
	F	Fundamental Lecture	01	Fundamental Course I		
			02	Fundamental Course II		
			03	Fundamental Course III		
	A	Advanced Lecture	01	Advanced Course I		
			02	Advanced Course II		
			03	Advanced Course III		
			04	Advanced Course IV		
			05	Advanced Course V		
			06	Advanced Course VI		
			07	Advanced Course VII		
			08	Advanced Course VIII		
	P	Fundamental Exercise	01	Fundamental Exercise I		
			02	Fundamental Exercise II		
			03	Fundamental Exercise III		
			04	Fundamental Exercise V		
	T	Special Lecture / Advanced Exercise	01	Advanced Data Mining for Biology		
			02	Bio-informatics Software		
			03	Introduction to Medicine		
			04	Introduction to Translational Research		
			31	Special Lectures on Computational Biology I		
			32	Special Lectures on Computational Biology II		
			33	Special Lectures on Computational Biology III		
			34	Special Lectures on Computational Biology IV		
			35	Special Lectures on Computational Biology V		
	36	Special Lectures on Computational Biology VI				
	B	Research Ethics / Intellectual Property / Public Policy	01	Introduction to Intellectual Property Law in Biotechnology		
			02	Seminar of Intellectual Property in Biosciences		
			03	Advanced Lecture on Biomedical Innovation I		
			04	Advanced Lecture on Biomedical Innovation II		
			05	Exercises of Comprehensive Analysis on Biomedical Innovation		

Department of Computational Biology and Medical Sciences	and Governance in Medical Sciences	06	Advanced lecture on Medical Sciences and Public Policy I	
		07	Advanced lecture on Medical Sciences and Public Policy II	
		08	Research Ethics and Clinical Ethics I	
		09	Research Ethics and Clinical Ethics II	
	S	Joint Lecture with Department of Bioinformatics and Systems Biology	01	Basics of Bioinformatics and Systems Biology I
			02	Basics of Bioinformatics and Systems Biology II
			04	Genome Sequence Analysis I
			05	Genome Sequence Analysis II
			06	Software and Algorithm Design for Biology I
			07	Software and Algorithm Design for Biology II
			08	Genome Biology
			09	Omics
			10	Systems Biology
			11	Data Mining for Biology
			12	Biostatistics
			13	Bioinformatics I
			14	Theoretical Biology
			15	Bioinformatics Programming
			16	Evolutionary and Ecological Informatics
			17	Bio-image Informatics
			18	Cell Biophysics
			31	Special Lectures in Bioinformatics and Systems Biology I
			32	Special Lectures in Bioinformatics and Systems Biology II
	33	Special Lectures in Bioinformatics and Systems Biology III		
	34	Special Lectures in Bioinformatics and Systems Biology IV		
	N	Internationaliz ation Exercise	01	Internationalization Exercises I (Poster presentation)
			02	Internationalization Exercises II (ppt presentation)
			03	Internationalization Exercises III (Writing)
			04	Internationalization Exercises IV
			05	Internationalization Exercises (Short-term global program)
	D	Data Scientist Training/Educ ation Program	01	Functional Bioinformatics
			02	Basic Lecture for Data Science for Drug Development
			03	Exercise of Data Science for Drug Development
			04	Exercise of Biological Data Programming I
			05	Exercise of Biological Data Programming II
			06	Practical Exercise of Data Science I
			07	Practical Exercise of Data Science II
			08	Practical Exercise of Data Science III
			09	Basics on Practical Drug Design
	C	Laboratory Seminar and Research	01	Seminar in Computational Biology and Medical Sciences I
			02	Research in Computational Biology and Medical Sciences I
			03	Compulsory Exercise for PhD Students I
			04	Compulsory Exercise for PhD Students II
			05	Seminar in Computational Biology and Medical Sciences II
			06	Research in Computational Biology and Medical Sciences II
			07	Seminar in Biomedical Innovation I
			08	Seminar in Biomedical Innovation II
09			Research in Biomedical Innovation I	
10			Research in Biomedical Innovation II	
		01	Geosphere Change	
		02	Environmental Chemistry	
		03	Atmosphere and Ocean Dynamics	
		04	Terrestrial Ecology	
		05	Hydrosphere Ecology	
		06	Environmental Evolutionary Adaptation	

Department of Natural Environmental Studies	L	Course Lectures	07	Landscape Planning and Design		
			08	Environmental Policy		
			09	Resource Management		
			10	Water Resource Environment		
			11	Natural Environmental Structures		
			12	Changes of Natural Environment		
			13	Biosphere Functions		
			14	Bio-environmental Studies		
			15	Biosphere Information Science		
			16	Natural Environment Evaluation		
			17	Natural Environment Formation		
			18	Numerical Modelling for Global Environment Issues		
			19	Environmental Information Science		
			20	Marine Biogeochemical Cycles		
			21	Marine Physical Environments		
			22	Marine Mammal Science		
			23	Modelling for ocean ecosystem		
			24	Frontiers in Natural Environmental Studies		
			25	Dynamics of Natural Environment		
			26	Conservation of Natural Environment		
			27	Coastal Marine Science		
			28	Terrestrial Natural Environment		
			29	Ocean Natural Environment		
			30	Material Cycling of Environment		
			31	Natural Environmental Landscape		
			S	Exercises	01	Seminar in Natural Environmental Studies I
					02	Seminar in Natural Environmental Studies II
					03	Advanced Seminar on Natural Environmental Studies I
					04	Advanced Seminar on Natural Environmental Studies II
					05	Advanced Seminar on Natural Environmental Studies III
			P	Field Experiments	11	Seminar on Marine Affairs IV
	01	Extensive Fieldwork on Natural Environmental Studies				
	02	Practice in Natural Environmental Studies				
	03	Practice in Marine Studies				
	11	Practice in Environmental Information Science				
	12	Practice in internship for ocean law and ocean policy				
	13	Practice in Coastal Environmental Studies				
	21	Practice in Earth Surface Environment I				
	22	Practice in Earth Surface Environment II				
	23	Advanced Practice in Earth Surface Environment I				
	24	Advanced Practice in Earth Surface Environment II				
	25	Advanced Practice in Earth Surface Environment III				
	31	Practice in Terrestrial Ecosystem I				
	32	Practice in Terrestrial Ecosystem II				
	33	Advanced Practice in Terrestrial Ecosystem I				
	34	Advanced Practice in Terrestrial Ecosystem II				
	35	Advanced Practice in Terrestrial Ecosystem III				
	41	Practice on Marine Environmental Studies I				
	42	Practice on Marine Environmental Studies II				
	43	Special Practice on Marine Environmental Studies I				
	44	Special Practice on Marine Environmental Studies II				
	45	Special Practice on Marine Environmental Studies III				
	51	Practice in Terrestrial Landscapes I				
52	Practice in Terrestrial Landscapes II					
53	Advanced Practice in Terrestrial Landscapes I					



			54	Advanced Practice in Terrestrial Landscapes II
			55	Advanced Practice in Terrestrial Landscapes III
	T	Research Works	01	Research Work in Natural Environmental Studies I
			02	Research Work in Natural Environmental Studies II
			03	Advanced Research Work in Natural Environmental Studies I
			04	Advanced Research Work in Natural Environmental Studies II
			05	Advanced Research Work in Natural Environmental Studies III
	G	Seminars	11	Group Seminar in Natural Environmental Studies I
			12	Group Seminar in Natural Environmental Studies II
			13	Group Special Seminar in Natural Environmental Studies I
			14	Group Special Seminar in Natural Environmental Studies II
			15	Group Special Seminar in Natural Environmental Studies III
	E	Laboratory Experiments	11	Experiment in Natural Environmental Studies I
			12	Experiment in Natural Environmental Studies II
			13	Advanced Experiment in Natural Environmental Studies I
14			Advanced Experiment in Natural Environmental Studies II	
15			Advanced Experiment in Natural Environmental Studies III	
Department of Ocean Technology, Policy, and Environment	A	Ocean Technology Policy, New Industry Development, Marine Environment Creation	01	Ocean Technology Policy
			02	New Industry Development
			03	Marine Environmental Creation
			04	Design of Environmentally Harmonizing Systems
			05	Strategic Environmental Assessment
			06	Special Lecture on Ocean Technology, Policy and Environment I
			07	Special Lecture on Ocean Technology, Policy and Environment II
			08	Special Lecture on Ocean Technology, Policy and Environment III
			09	Project on Ocean Technology, Policy, and Environment I
			10	Project on Ocean Technology, Policy, and Environment II
			11	Social Implementation of Ocean Technology
			12	Ocean Utilization Systems
	B	Fundamentals	01	Ocean Development Systems
			02	Applied Fluid Dynamics
			03	Material and Structural Mechanics for Ocean Systems
			04	Special lecture on experimental methodology of ocean technology and environment
			05	Theory on Ship Propulsive Performance
			06	Marine Hydrodynamics
	C	Modeling	01	Marine Environmental Modelling
			02	Exercises on Ocean Information
			03	Ocean Data Science
	D	Sensing	01	Underwater Robotics
			02	Ocean Observation Technology
			03	Marine Robotics and Sensing
	E	Ocean Science	01	Polar Environment
			02	Dynamics of the ocean surface processes
			03	Metocean fundamentals for Engineers
	F	Internship	01	Practical Exercise on Ocean Industry I
			02	Practical Exercise on Ocean Industry II
	G	Overseas Internship	01	Special Exercise on Ocean Technology, Policy and Environment I
			02	Special Exercise on Ocean Technology, Policy and Environment II
			03	Special Exercise on Ocean Technology, Policy and Environment III
			04	Special Exercise on Ocean Technology, Policy and Environment IV
	H	Thesis Research	01	Research on Ocean Technology, Policy and Environment I s
			02	Research on Ocean Technology, Policy and Environment I w
			03	Research on Ocean Technology, Policy and Environment II s
			04	Research on Ocean Technology, Policy and Environment II w
			05	Special Research on Ocean Technology, Policy and Environment I s

			06	Special Research on Ocean Technology, Policy and Environment I w
			07	Special Research on Ocean Technology, Policy and Environment II s
			08	Special Research on Ocean Technology, Policy and Environment II w
			09	Special Research on Ocean Technology, Policy and Environment III s
			10	Special Research on Ocean Technology, Policy and Environment III w
Department of Environment Systems	1	Environment Systems	01	Foundations of Environment Systems I
			02	Foundations of Environment Systems II
			03	Environment Systems I
			04	Environment Systems II
			05	Projects on Environment Systems
			06	Seminar on Environment Systems
	2	Energy & Resources	01	Environment Material Systems
			02	Environment Technology in Mineral Resources Development
			03	Resources and Energy
			04	Energy and environment systems
			05	Active Monitoring of Geological Environment
	3	Assessment	01	Safety for Environment and its Systems
			02	Life Cycle Impact Assessment
			03	Management of Radiation Risk
			04	Special Lecture on Environmental Risks
			05	Environmental Toxicology
			06	Environmental Assessment
			07	Advanced Radiation Protection
	4	Natural Environment	01	Studies of marine Environment
			02	Environmental and material systems
			03	Geosphere Environment
			04	Bioecological System in Environment
			05	Special Lecture on Environmental Ecology
	5	Environment Conservation	01	Environmental Technology Development
			02	Environmentally Friendly Chemical Process
	6	Human & Society Environment	01	Environment economics system
			02	Socio-environmental Systems
			03	Reciprocity of artifacts and environmental problem
	7	Computational Information Science	01	Introduction to Modeling of Environment Systems
			02	Foundations of Environmental Informatics and Sensing
	8	Special Lectures	01	Special Lecture on Environmental System I
			02	Special Lecture on Environmental System II
03			Special Lecture on Environmental Systems III	
04			Special Lecture on Environmental Systems IV	
9	Internship/ha nds-on training	01	Internship on Environmental System	
		11	Overseas Researches on Environment Systems I	
		12	Overseas Researches on Environment Systems II	
		13	Overseas Researches on Environment Systems III	
		14	Overseas Researches on Environment Systems IV	
		15	Overseas Researches on Environment Systems V	
		16	Overseas Researches on Environment Systems VI	
		17	Overseas Researches on Environment Systems VII	
a	Master & Doctoral Researches	01	Researches on Environment Systems I	
		02	Researches on Environment Systems II	
		21	Experiments on Environment Systems I	
		22	Experiments on Environment Systems II	
		41	Special Researches on Environment Systems I	
		42	Special Researches on Environment Systems II	
		43	Special Researches on Environment Systems III	
		61	Special Experiments on Environment Systems I	

			62	Special Experiments on Environment Systems II
			63	Special Experiments on Environment Systems III
Department of Human and Engineered Environmental Studies	A	Energy and	01	Advanced Lecture on Environmental Energy Systems
	B	Mechatronics	01	Special lecture on environmental information equipment
			02	Vibration of elastic continuum
			03	Mechatronics for Environmental Studies
			04	Actuation technologies
	C	System engineering	02	Knowledge Information Processing
			03	Modeling and analysis of complex systems
	D	Information engineering	01	Human and Environmental Information Wearable Sensing
			02	Environmental Simulation I
			03	Environmental Simulation II
			04	Environment Monitoring Devices
	E	Mechanical	01	Environmental Sound and Vibration
	F	Barrier-free	01	Assistive Technology
	G	Electrical and Electric	01	Mechanical and Electrical Design of Flexible Devices
			02	Biointerface
	H	Overall view/Multidisciplinary view	01	Special Lecture on Human and Engineered Environment I
			02	Special Lecture on Human and Engineered Environment II
			03	Research into Artifacts
			04	Physiological Science of Adaptation to Exercise
			05	Human and Engineered Environmental Studies (Basic I)
			06	Human and Engineered Environmental Studies (Basic II)
			07	Human and Engineered Environmental Studies (Application)
08			Exercises in Human Environmental Design	
09			Special Exercises in Human and Engineered Environment I	
10			Special Exercises in Human and Engineered Environment II	
11			Special Exercises in Human and Engineered Environment III	
12			Special Exercises in Human and Engineered Environment IV	
13			Special Exercises in Human and Engineered Environment V	
14			Nanoprocessing and Nanometrology	
15			Human and Engineered Environmental Studies (Development)	
16			Advanced Course of Mobility Engineering	
17			Special Lecture on Human Factors	
18			Special Lectures on Human and Engineered Environmental Studies	
19			Human and Engineered Environmental Studies (Basic II A)	
20			Human and Engineered Environmental Studies (Basic II B)	
21	Concept Rapid Prototyping			
22	Teaching Development in Higher Education			
A	Society & Humanity	01	Environmental Movement	
		02	Environmental Ethics	
		03	History of Human and Environment	
		04	Studies in Culture and Environment	
		05	Historical Landscape Ecology	
		06	Seminar on Society and Humanity I	
		07	Seminar on Society and Humanity II	
		08	Seminar on Society and Humanity III	
B	Spatial Planning & Design	01	Design for Living Environments	
		02	Spatial Planning and Design	
		03	Management of Built Environment	
		04	Exercise on Management of Built Environment	
		05	Environmental Acoustics	
		06	Exercise on Environmental Acoustics	
		07	Morphology of Architectural Structures	
		08	Exercise on Space Environment Engineering	

Department of Socio-Cultural Environmental Studies	C	Water and Material Cycles	09	Practice in Architectural Design I
			10	Practice in Architectural Design II
			11	Lighting Environment
			12	Seminar on Lighting Environment
			01	Sustainable Environmental Technology Systems
			02	Water and Wastewater Treatment for Material Recycling
			03	Seminar on Urban Water Environment
			04	Coastal Environment Infrastructure Studies
			05	Seminar on Coastal Environment Infrastructure Studies
			06	Analysis of Coastal Environmental Processes
			07	Seminar on Analysis of Coastal Environmental Processes
			D	Spatial Information Science
	02	Spatial Information Analysis		
	03	Seminar on Spatial Information Analysis		
	04	Geographic Information and Design		
	05	Seminar on Spatial Information System		
	06	Statistical Data Analysis		
	07	Urban and Regional Economic Analyses I		
	08	Urban and Regional Economic Analyses II		
	09	Urban and Regional Information Analysis		
	10	Urban Computing		
	11	Seminar on Spatial Information Analysis		
	E	Socio-cultural Environmental Studies		
			02	Seminar on Socio-cultural Environment I
			03	Seminar on Socio-cultural Environment II
			04	Seminar on Socio-cultural Environment III
			05	Seminar on Socio-cultural Environment IV
			06	Practice on Socio-Cultural Environment
			07	Study on Socio-cultural Environment
			08	Special Seminar on Socio-cultural Environment I
			09	Special Seminar on Socio-cultural Environment II
			10	Special Study on Socio-cultural Environment
			11	Special Lecture on Socio-cultural and Socio-physical Environment I
12			Special Lecture on Socio-cultural and Socio-physical Environment II	
A	Introductory Courses	01	Basic Mathematics for International Studies	
		02	Introduction to Statistics and Quantitative Analysis	
		03	Instruments for ODA	
		04	Theory and Practice of Fieldwork	
		05	Theory and Practice of Fieldwork	
		06	Basic Mathematics for International Studies	
	B	Core Courses	01	Field Work and Formation of Hypotheses
			02	Development Economics
			03	Development Research
			04	Asian network
			05	Environment and Resources Management I
			06	Environment and Resources Management II
			07	Rural Planning
			08	Introduction to Geoinformatics
			09	Studies of International Political Economy
10	Project Decision Making			
11	Game Theory for Conflict Management I			
12	Game Theory for Conflict Management II			
13	Mathematical Methods for International Studies I			
14	Mathematical Methods for International Studies II			
15	Foundations of Development Financial Economics			

Department of International Studies			16	Agricultural Water Management	
			17	International Studies Research Seminar	
	C	Applied Courses	01	Agricultural Development	
			02	Seminar on Asian Network	
			03	Agricultural Production Technology and International Cooperation	
			04	Disaster and Risk Process Analysis I	
			05	Disaster and Risk Process Analysis II	
			06	Open Macroeconomics	
			07	Development Model	
			08	Collective Decision-Making I	
			09	Collective Decision-Making II	
			10	Process of Environmental and Technology Policies	
			11	International Studies Lecture Series I	
			12	International Studies Lecture Series II	
			13	International Studies Lecture Series III	
			14	International Studies Lecture Series IV	
			15	International Studies Lecture Series V	
			16	International Studies Lecture Series VI	
			17	Advanced Lecture on International Studies I	
			18	Advanced Lecture on International Studies II	
			19	Advanced Lecture on International Studies III	
			20	Advanced Lecture on International Studies IV	
			21	Advanced Lecture on International Studies V	
			22	Advanced Lecture on International Studies VI	
			23	Advanced Lecture on International Studies VII	
			24	Advanced Lecture on International Studies VIII	
			25	Advanced Lecture on International Studies IX	
			26	Advanced Lecture on International Studies X	
			27	Water Security	
			28	Water Security: Exercise	
			29	Topics in Development Finance	
			30	International Studies Lecture SeriesVII	
			31	International Studies Lecture SeriesVIII	
			32	International Studies Lecture SeriesIX	
			33	International Studies Lecture Series X	
			34	Agro-Environmental Studies	
			35	Disaster and Risk Process Analysis	
	D	Practical Courses	01	Exercise of Field Work	
			02	Field Work for Development Aid	
			03	Summer Program	
			04	Masters Internship I	
			05	Masters Internship II	
			06	Doctoral Internship I	
			07	Doctoral Internship II	
				01	International Studies Seminar I a
				02	International Studies Seminar I b
			03	International Studies Seminar II a	
			04	International Studies Seminar II b	
			05	International Studies Seminar IIIa	
			06	International Studies Seminar IIIb	
			07	International Studies Seminar IVa	
			08	International Studies Seminar IVb	
			09	Doctoral Research Seminar I a	
			10	Doctoral Research Seminar I b	

	E	Thesis Research	11	Doctoral Research Seminar II a			
			12	Doctoral Research Seminar II b			
			13	Doctoral Research Seminar III a			
			14	Doctoral Research Seminar III b			
			15	Doctoral Research Seminar IV a			
			16	Doctoral Research Seminar IV b			
			17	Doctoral Research Seminar V a			
			18	Doctoral Research Seminar V b			
			19	Doctoral Research Seminar VI a			
			20	Doctoral Research Seminar VI b			
			21	International Studies Seminar I S1			
			22	International Studies Seminar I S2			
			23	International Studies Seminar I A1			
			24	International Studies Seminar I A2			
			25	International Studies Seminar II S1			
			26	International Studies Seminar II S2			
			27	International Studies Seminar II A1			
			28	International Studies Seminar II A2			
			29	Doctoral Research Seminar I S1			
			30	Doctoral Research Seminar I S2			
			31	Doctoral Research Seminar I A1			
			32	Doctoral Research Seminar I A2			
			33	Doctoral Research Seminar II S1			
			34	Doctoral Research Seminar II S2			
			35	Doctoral Research Seminar II A1			
			36	Doctoral Research Seminar II A2			
			37	Doctoral Research Seminar III S1			
			38	Doctoral Research Seminar III S2			
			39	Doctoral Research Seminar III A1			
			40	Doctoral Research Seminar III A2			
			Graduate Program in Sustainability Science - Global Leadership Initiative	A	Science of Sustainability	01	Concepts and Methodologies of Sustainability Science
						02	Socio-Environmental System and Sustainability
						03	Advanced Concepts and Methodologies of Sustainability Science
						04	Sustainability Science: Japanese Perspectives
				B	Science for Sustainability	01	Strategies for Global Sustainability
						02	Environmental Sustainability
						03	Management and Policy Studies of Sustainability
						04	Sustainability of Resources
						05	Planning and Design for Sustainability
						06	Education and Sustainability
07	Biodiversity						
08	Frontier of Sustainability Science						
09	Energy and Materials for Sustainability						
10	Critical Thinking Basics for Non-Native Speakers of English A						
11	Critical Thinking Basics for Non-Native Speakers of English B						
12	Critical Thinking Skills - Applications & Beyond the Basics A						
13	Critical Thinking Skills - Applications & Beyond the Basics B						
14	Special Lecture on Sustainability Science I						
15	Special Lecture on Sustainability Science II						
16	Special Lecture on Sustainability Science III						
17	Special Lecture on Sustainability Science IV						
18	Negotiation and Consensus Building for Sustainability						
19	Field Exercise on Sustainability Science						
20	Global Field Exercise A						
21	Global Field Exercise B						

		22	Global Internship
		23	Management and Policy Studies of Sustainability
D	Thesis Research	01	Seminar on Sustainability Science (Master's)
		02	Master's Research on Sustainability Science I
		03	Master's Research on Sustainability Science II
		04	Master's Research on Sustainability Science III
		05	Master's Research on Sustainability Science IV
		06	Seminar on Sustainability Science (Doctoral)
		07	Doctoral Research on Sustainability Science I
		08	Doctoral Research on Sustainability Science II
		09	Doctoral Research on Sustainability Science III
		10	Doctoral Research on Sustainability Science IV
		11	Doctoral Research on Sustainability Science V
		12	Doctoral Research on Sustainability Science VI