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
	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	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		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
	D	Materials Engineering	01	Environmental materials engineering
			02	Physical chemistry for high temperature processes
			03	Non-equilibrium process
			04	High-Temperature Materials Design
	E	Computational Science・Data Science	01	Computational Science for Many-Body Problems
			02	Information Compression in Computational Science
			03	Computational Physics
			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

	F	Interdisciplinary or Overhead View of Advanced Materials Science	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
	G	Seminar・Special Research	01	Advanced Materials Science Seminar Ⅰ A
			02	Advanced Materials Science Seminar Ⅰ B
			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
			01	Plasma Physics and Controlled Nuclear Fusion

H	Plasma and Fusion Science	02	Fusion Energy Engineering
		03	Plasma Diagnostic Techniques
		04	Plasma Applications
		05	Advanced Plasma Physics and Engineering
I	Computational Science	01	Introduction to Computational Fluid Dynamics
		02	High-speed Numerical Simulation
J	Overall view/Multidisciplinary 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
	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
		Research Ethics / Intellectual Property /	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

Department of Computational Biology and Medical Sciences	B	Public Policy and Governance in Medical Sciences	05	Exercises of Comprehensive Analysis on Biomedical Innovation
			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
			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
			35	Bioinformatics Programming
			36	Evolutionary and Ecological Informatics
	N	Internationalization Exercise	01	Internationalization Exercises I (Poster presentation)
			02	Internationalization Exercises II (ppt presentation)
			03	Internationalization Exercises III (Writing)
			04	Internationalization ExercisesIV
			05	Internationalization Exercises(Short-term global program)
	D	Data Scientist Training/Education 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

Department of Natural Environmental Studies	L	Course Lectures	06	Environmental Evolutionary Adaptation
			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
	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
			11	Seminar on Marine Affairs Ⅳ
	P	Field Experiments	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	Oversea 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
			01	Research on Ocean Technology, Policy and Environment Ⅰs
			02	Research on Ocean Technology, Policy and Environment Ⅰw

	H	Thesis Research	03	Research on Ocean Technology, Policy and Environment IIs
			04	Research on Ocean Technology, Policy and Environment IIw
			05	Special Research on Ocean Technology, Policy and Environment Is
			06	Special Research on Ocean Technology, Policy and Environment Iw
			07	Special Research on Ocean Technology, Policy and Environment IIs
			08	Special Research on Ocean Technology, Policy and Environment IIw
			09	Special Research on Ocean Technology, Policy and Environment IIIs
			10	Special Research on Ocean Technology, Policy and Environment IIIw
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	01	Introduction to Modeling of Environment Systems
	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/hands-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
		Master &	01	Researches on Environment Systems I
			02	Researches on Environment Systems II
			21	Experiments on Environment Systems I
			22	Experiments on Environment Systems II

	a	Master & Doctoral Researches	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
	C	System	02	Knowledge Information Processing
	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	01	Mechanical and Electrical Design of Flexible Devices
	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)
	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

		Design	08	Exercise on Space Environment Engineering
			09	Practice in Architectural Design Ⅰ
			10	Practice in Architectural Design Ⅱ
			11	Lighting Envrionment
			12	Seminor on Lighting Envrionment
Department of Socio-Cultural Environmental Studies	C	Water and Material Cycles	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	01	Development and Utilization of Spatial Database
			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
	E	Socio-cultural Environmental Studies	01	Transdisciplinary Seminar on Socio-Cultural Environment
			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
	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

Department of International Studies			15	Foundations of Development Financial Economics
			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 SeriesⅩ
			34	Agro-Environmental Studies
	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 Ⅰa
			02	International Studies Seminar Ⅰb
			03	International Studies Seminar Ⅱa
			04	International Studies Seminar Ⅱb
			05	International Studies Seminar Ⅲa
			06	International Studies Seminar Ⅲb
			07	International Studies Seminar Ⅳa
			08	International Studies Seminar Ⅳb
			09	Doctoral Research Seminar Ⅰa

	E	Thesis Research	10	Doctoral Research Seminar Ⅰb
			11	Doctoral Research Seminar Ⅱa
			12	Doctoral Research Seminar Ⅱb
			13	Doctoral Research Seminar Ⅲa
			14	Doctoral Research Seminar Ⅲb
			15	Doctoral Research Seminar Ⅳa
			16	Doctoral Research Seminar Ⅳb
			17	Doctoral Research Seminar Ⅴa
			18	Doctoral Research Seminar Ⅴb
			19	Doctoral Research Seminar Ⅵa
			20	Doctoral Research Seminar Ⅵb
			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