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[Graduate School of Innovation and Practice for Smart Society]	2	36		72	Master of Philosophy	5 4 1	1 5 4 1 4 4 2 3
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	[Division of Humanities and Social Sciences]	2	257		514	ḏMaster of Arts€ ḏMaster of Psychology€ ḏMaster of Laws€ ḏMaster of Economics€ ﬁ ≠ ŧ ˘ w ḏMaster of Management Sciences€ ḏMaster of Business Administration€ ḏMaster of International Cooperation Studies€ ḏMaster of Philosophy€	2 4 1	3	2	╓ ˧
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	(й) [Graduate School of Advanced Science and Engineering]							1	4	
	[Division of Advanced Science and Engineering]	2	449		898	ḏMaster of Science€ ḏMaster of Engineering€ ḏMaster of Informatics and Data Science€ ḏMaster of International Cooperation Studies€ ḏMaster of Philosophy€	2 4 1			╓
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	(л) [Graduate School of Biomedical and Health Sciences]							3 2	
	[Division of Integrated Health Sciences]	2	76		152	₫Master of Medical Science€ ₫Master of Dental Science€ ₫Master of Public Health€ ₫Master of Medicinal Science€ ₫Master of Science in Nursing€ ₫Master of Health Science€ ₫Master of Oral Health Science€ ₫Master of Philosophy€	31 4 1		╓ ˥ˇ ⁺ ˥ ∨ ˥ ♯ ˥ˇ ⁺ ˥ ∨ ˥ ♯ / ｏ
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╓	ɨ ﬁ ˥ w ◕ ◙ ∨ ‣ [Graduate School of Innovation and Practice for Smart Society]	3	17		51	₫Doctor of Philosophy€ ₫Doctor of Philosophy in Engineering€ ₫Doctor of Philosophy in Informatics and Data Science€ ₫Doctor of Philosophy in Agriculture€ ₫Doctor of Philosophy in Health Science€ ₫Doctor of Philosophy in Medical Science€ ₫Doctor of Philosophy in Economics€	5 4 1	1 1 4 3 5 4 4 2	14 ╓ ╓ ˥ˇ ⁺ ˥ ∨ ˥ ♯ / ｏ
	(и) [Graduate School of Humanities and Social Sciences]								

	[Division of Humanities and Social Sciences]	3	85		255	ḏDoctor of Philosophy in Humanities€ ḏDoctor of Philosophy in Psychology€ ḏDoctor of Philosophy in Laws€ ḏDoctor of Philosophy in Economics€ ﬁ ≠ ŧ ˘ w ḏDoctor of Philosophy in Management Sciences€ ḏDoctor of Philosophy in Business Administration€ ḏDoctor of Philosophy in International Cooperation Studies€ ḏDoctor of Philosophy€	2 4 1	3	2	╓ ˧
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教　育　課　程　等　の　概　要

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教　育　課　程　等　の　概　要

（統合生命科学研究科統合生命科学専攻（博士課程後期））【既設】

教　育　課　程　等　の　概　要

（統合生命科学研究科統合生命科学専攻（博士課程後期））【既設】

別記様式第２号（その２の１）

教　育　課　程　等　の　概　要

（医系科学研究科総合健康科学専攻（博士課程後期））【既設】

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	Advanced Research Methodology in Health Science	1		2		○			1	2				
	Advanced Statistics in Health Science	1		2		○								1
	Global Health Challenges and Solutions	1		2		○			1	1				

教　育　課　程　等　の　概　要

（医系科学研究科総合健康科学専攻（博士課程後期））【既設】

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教　育　課　程　等　の　概　要

（医系科学研究科総合健康科学専攻（博士課程後期））【既設】

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		1		2		○								1
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教　育　課　程　等　の　概　要

（医系科学研究科総合健康科学専攻（博士課程後期））【既設】

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Japanese Experience of Social Development-Economy, Infrastructure, and Peace	This course discusses the issues of Japanese development experience from the perspective of a pursuit of sustainability, which corresponds to the ideal of ‘A Single Unified University, Free and Pursuing Peace’ in the Founding Principle of Hiroshima University, and its long-term vision ’Splendor Plan 2017.’ While sustainability is set as a core of SDGs, it’s not easy to be realized as it involves many complicated and related issues represented by various components of SDGs. As resolution of one issue may produce another issue, we have to adopt a cross-disciplinary approach and consider historical aspects to tackle the issues. Inclusiveness is another aspect we have to pay attention in order to make global development sustainable, hence another important component of SDGs. To understand these complicated problems of sustainability, Japanese experience of development provides an interesting case. Japan is the first among non-Western countries to become a member of OECD, and its developmental path finds many successes as well as failures, from which we can learn a lot of lessons. Japan’s endeavor for development and its

			Thus this course discusses such a wide range of issues Japan experienced in its whole process of social development that covers many aspects of SDGs. lesson1 Osamu Yoshida, 'Guidance for the Course' lesson2 Masahiro Yoshikawa, Deputy Director of JICA Chugoku Center, 'Outline of Japan's Development Cooperation' lesson3 Yuichiro Yoshida, 'Japanese Policy Experience: Success and Failures' lesson4 Masaru Ichihashi, 'Industrial Policy and Economic Growth' lesson5 Junyi Zhang, 'History of Environmental Policies in Japan' 1 lesson6 Junyi Zhang, 'History of Environmental Policies in Japan' 2 lesson7 Osamu Yoshida, 'Japanese ODA and Its Asia Policy' lesson8 Mari Katayanagi, 'Reconstruction of Hiroshima from Peacebuilding Perspective' Splendor Plan 2017 SDGs SDGs SDGs OECD SDGs 8 48 1 111 1 1 1 2 1 3 2 48 1 ODA 49 1	
		Japanese Experience of Human Development-Culture, Education, and Health	This course intends to discuss the issues of SDGs under the ideal of 'A Single Unified University, Free and Pursuing Peace' in the Founding Principle of Hiroshima University, and the long-term vision "Splendor Plan 2017". The SDGs sets sustainability as a core of the global issues. Such a broad issue always involve many related issues.	

			Resolution of one issue may produce another issue. It is important to consider cross-disciplinary approach and historical aspect. Also inclusiveness is an important principle of SDGs, and thus all countries, developed and developing countries, should collaborate to tackle these. When considering these cross-disciplinary approach, history, and inclusiveness of development, Japanese experience of development provides an important case, because Japan, among non-European countries, is the first country which has become a member of OECD. Here, we can learn many points from the developing efforts whether they are success or failure. These efforts, including development assistance, are connected to Japanese society of today. On the other hand, Japan currently faces such new issues as rapid aging and depopulation. Thus this course discusses Japanese experience of human development from the above aspects. lesson1 Guidance of the course lesson2 Maharajan Keshav Lall “Japanese experience of development in Agriculture and Remote area” lesson3 Koki Seki “Socio-cultural Aspect of Modernization of Japan: Focusing on the Transformation of Norm, Mentality, and Way of Living” lesson4 Kinya Shimizu “A History of Education in Japan” lesson5 Kinya Shimizu “Lesson Study in Japan: As a tool of PDSI in Japanese Education” lesson6 Junko Tanaka “International cooperation and research collaboration in the field of public health” lesson7 Michiko Moriyama "Healthcare system in Japan: its characteristics and history" lesson8 Discussion (Splendor Plan 2017 SDGs SDGs SDGs OECD 8 50 2 23 MAHARJAN KESHAV LALL 1 51 1 52 2 53 1 54 1	
			Provide a deep understanding of basic descriptive and inferential tools. Promote correct use of statistics and correct interpretation of statistical results. Promote transparency and replicability.	

			8 53 1 NDB National data base 56 1 81 1 , , 57 1 58 1 4 1 53 1 102 1 AI	
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|		Arts & Science for Evidence-Based Decision Making	"The art and science of policy making is entering into a new era. The paradigm shift is upgrading the process of policy making and its impact evaluation from a personal-experience-based subjective approach to a more objective, evidence-based one. Evidence-based decision making does not merely mean the utilization of data; rather, it explicitly prohibits doing so, by acknowledging the wisdom that what our data shows in front of our eyes is just the correlation, and not the causation that we need to base our decision. The course will start by explaining what exactly is causation, illustrating how causation is different from correlation, and the danger of making policy decisions based on the correlation. Then the course will cover how to make your decision right by extracting causation from your data, namely, various identification strategies, including the instrumental variable analysis. Throughout the course, all concepts are delivered without using technical expressions. Students will acquire the intuition directly from the lectures. Society 5.0	
		Data Analytics for Sustainable Development	This course is designed for understanding basic statistics and introducing data analytic skills with R for sustainable development studies, including urban and transportation planning, epidemiology, ecology, and climatology. After basic introductory classes on statistics with exercises, four case studies on different disciplines will follow. Society 5.0 R 4 16 24 R	

		R 25 R R 26 R R 27 R R	
	Geographic Information System Technology	Society 5.0 GIS GIS GIS GIS GIS	
	Practical Machine Learning	This lecture covers the practice and some necessary theory of supervised learning (Regression and Classification). We cover basic concepts of statistical learning, like the bias-variance trade-off, and practical aspects of model evaluation and hyper-parameter selection. Starting from basic linear models, we proceed to neural networks and its implementation and training using PyTorch. The lecture will consists of three types: ordinary lectures, hands-on-sessions, presentation by students. Society 5.0 - PyTorch	
	Artificial and Natural Intelligence	Society 5.0 PyTorch Convolutional Neural Networks, Recurrent Neural Networks Transformer	

|	Academic Writing I	Society 5.0 I	
|	Advanced Natural Language Processing	Web	
	Advanced Learning Systems		
	Advanced Biosystems Engineering		
	Advanced Data-driven Systems Design	(1) (2) (3) / (4) (5) (6) CPS	
	Advanced Smart Sensing		
	Advanced Robotics		
	Transportation Engineering	ITS	
	Regional and Urban Engineering		

	Fundamentals of Survey Methodology		
	Infrastructure and Regional Planning		
	Smart Urban Development		
|	Environmental Health Science	1. 2. 3. 4. 5. 6.	
	Environmental Epidemiology	3 : ; ; 1. 2. 3.	
	Advanced Energy Plant	15 12 8	

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	Advanced Thermal Engineering		
	Energy Science and Technology	CO2	
	Biomass Energy Technology		
	Advanced Environmental Systems Engineering		
|	Advanced Energy Conversion Systems		
	Sustainable Architecture A	35-40%	
	Assisted Reproductive Technology for Animal Production		

		91 4	
	Molecular Genetics for Animal Production	DNA	10 4 2
	Smart Livestock Farming		8 8
	Smart Crop Production		8 8
	Sustainable Marine Environment	Marine Social-ecological system 17 4 76 LIAO LAWRENCE MANZANO 4	
	Sustainable Production of Fisheries Resources		8 8
	Microbiology for Food Safety		
	Food Science and Brain Health	In this subject, students will learn fundamental brain science and how food and nutrition affect brain's health. Updated roles of food and nutrition in brain diseases such as Alzheimer's disease, dementias, epilepsy, and mental disorders will be discussed in this class. Reference textbooks and contents: 1) Fundamental Neuroscience, 4th Edition, 2013, New York: Academic Press.; 2) Neuroscience Online, an Open-Access Neuroscience Electronic Textbook, The University of Texas Health Science Center at Houston, McGovern Medical School.; 3) Modern Nutrition	

	Exercises in Smart Agriculture I		
	Exercises in Smart Agriculture II		
	Botany Resources for the Future		
	Management and Conservation of Ecosystems		
	Epidemiology and Disease Prevention	The overall objectives of the course for students are to: 1. Explain the essential information of epidemiology and describe the importance of epidemiologic studies. 2. Introduce basic concepts and issues of epidemiologic methods as well as disease control procedures. 3. Determine the etiologies of and effective preventive measures for communicable and chronic diseases. 4. Expand understanding of disease determinants and disease prevention in local and international settings. 5. Continue the practice of health related English communication skill. 1. 2. 3.	

	Lecture on Oral Health Sciences	15 65 1 AI 83 1 66 1 78 1 22 1 79 1 67 1 84 1 93 1 94 1 68 1 85 1 95 1 21 1 96 1	
	Global Health Challenges and Solutions 1	This class is open to graduate students in Health Sciences, who intend to work on issues in local, country level, and/or worldwide. We will discuss SDGs (Sustainable Development Goals) and solutions introduced from UN (United Nations); also we will discuss using our real strategic approaches implemented in	

		Japan and other countries. Special guest speakers for lecture and discussion will be invited. SDGs 15 77 RAHMAN MD MOSHIUR 11 SDGs 54 2 19 1 80 1	
	Global Rehabilitation		14 16
|	Seminar on Health Policy & Global Health	Students will learn to promote health of the society (rather than individuals) through public health efforts. We will learn the underlying concept of justice behind health and longevity. We will provide comprehensive ways (e.g., prevention, epidemiological, and policy building perspectives) to promote health in society and communities. We will also demonstrate political and economical perspectives related to health and medicine in medicine, pharmacology, and dentistry to help students understand histories of certain policies and systems. " Justice/ " public health/ 8 53 86 1 27 1 70 1 69 1	

		71 1 4 3	
	Basic Biostatistics and Basic Clinical Statistics	9 53 1 86 6 56 1 97 KO KO 1	6 12
|	Exercise and Seminar on Epidemiological Research and It's Analysis		
	Basic Epidemiology and Practice	15 53 1 86 5 EBM 99 97 KoKo 4 107 1 103 1 108 1	

		104 GRANT ERIC JON 1 Epidemiological Method 109 1	
	Research Methods	This course provides students common knowledge about an empirical research process in social science. The students will be able to acquire practical knowledge of how to search and read a scientific paper, types of data and how to collect them, causal inference and randomized controlled trial, and how to write a social science thesis. Class topics are designed to convey those knowledge through topical lectures, group activities, small quizzes, and presentation.	
	Applied Econometrics	Instrumental Variable Estimations	
	Applied Econometrics II		
|	Development Microeconomics I	I	
	Development Microeconomics II	II	
	Development Macroeconomics I	I I	
	Development Macroeconomics II	II II	
	Agriculture Production Economics		

	Peace, Conflict, and the Environment		
|	Urban Policy		
	Internship	Society 5.0	
	Fieldwork	Society 5.0 ( )	
|	Young Professionals Preparing for Careers in International Organizations A	Society 5.0 A ODA Official Development Assistance DAC 5 PCM Project cycle management) 1 PCM PDM(Project Design Matrix) 2 DAC 5 3	
	Young Professionals Preparing for Careers in International	Society 5.0	

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<tr><td>|</td><td>Seminar on Master Thesis</td><td>5 6 7 8 9
28 ANDRADE SILVA DANIEL GEORG
29 RAYTCHEV BISSER ROUMENOV 30
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		SDGs	SDG UNDP SDG 17 SDGs	
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			42 1 UNSCEAR 63 1 -	
			8 44 2 NDB National Data Base 45 1 61 1 46 1 47 1 2 1 64 1 AI	

	Management and Entrepreneurship	exploitation exploration	
|	Technology Strategy and R&D Management	R&D	
	Academic Writing	II	

	Idea Mining Workshop	The workshop aims to cultivate students' entrepreneurship and ideation skills to create a social business plan within the framework of SDGs. The purpose of this workshop is to practice entrepreneurship. Student teams are expected to create a technology/product based startup and write a business plan including all the building blocks of creating a social enterprise within the overall framework of Sustainable Development Goals. The workshop would cover broad spectrum of business issues in start-up creation – product development, market research, technology viability, fund raising, team formation, growth challenges and exit options. It is expected that participants at the end of the workshop would be able to assess their competencies and gain knowledge to translate it into real life situation to implement a business plan. SDGs	
|	Advanced Internship		
	Advanced Fieldwork	( )	

|	Seminar on Doctoral Dissertation	3 4 5 6 7 22 ANDRADE SILVA DANIEL GEORG 23 RAYTCHEV BISSER ROUMENOV 24 AI 8 9 10 25 26 27 CO2 AI 11 12 28 29 30 31 50 1 13 14 15 16 21 32 KUMRUNGSEE THANUTCHAPORN 33 34 35 TRAN DANG XUAN AI 2 17 18 ICT 19 20 36 37 38 NIRAJ PRAKASH JOSHI 39 SIMANGAN DAHLIA COLLADO 51 59 AI EBPM	