



	52	14	0	66	60	

		3	5	0	0	8	0	43
		(3)	(5)	(0)	(0)	(8)	(0)	(43)
		3	5	0	0	8	0	43
		(3)	(5)	(0)	(0)	(8)	(0)	(43)
		103	93	6	17	219	0	123
		(103)	(93)	(6)	(17)	(219)	(0)	(123)
		95	89	4	1	189	0	34
		(95)	(89)	(4)	(1)	(189)	(0)	(34)
		64	56	8	1	129	0	146
		(64)	(56)	(8)	(1)	(129)	(0)	(146)
		66	56	4	0	126	0	40
		(66)	(56)	(4)	(0)	(126)	(0)	(40)
		6	10	2	0	18	0	120
		(6)	(10)	(2)	(0)	(18)	(0)	(120)
		14	1	1	0	16	0	85
		(15)	(1)	(1)	(0)	(17)	(0)	(85)
		6	4	0	0	10	0	46
		(6)	(4)	(0)	(0)	(10)	(0)	(46)

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121	109	5	79	314	0	104
(121)	(109)	(5)	(79)	(314)	(0)	(104)
121	107	3	47	278	0	50
(121)	(107)	(3)	(47)	(278)	(0)	(50)
48	49	6	36	139	0	134
(48)	(49)	(6)	(36)	(139)	(0)	(134)
44	49	6	30	129	0	39
(44)	(49)	(6)	(30)	(129)	(0)	(39)
52	40	22	34	148	0	69
(52)	(40)	(22)	(34)	(148)	(0)	(69)
84	32	25	25	166	0	151
(84)	(32)	(25)	(25)	(166)	(0)	(151)
40	4	5	1	50	0	99
(40)	(4)	(5)	(1)	(50)	(0)	(99)
453	371	68	186	1078	0	
(454)	(371)	(68)	(186)	(1079)	(0)	()
453	372	68	186	1079	0	
(454)	(372)	(68)	(186)	(1080)	(0)	()

523	938	1,461
523	938	1,461
1,119	211	1,330
1,119	211	1,330
26	0	26
26	0	26
4	352	356
4	352	356
1,672	1,501	3,173
1,672	1,501	3,173

951,632	0	0	951,632
244,009	0	0	244,009
1,195,641	0	0	1,195,641
1,134,377	0	0	1,134,377
2,330,018	0	0	2,330,018

514,567	0	0	514,567
514,567	0	0	514,567

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	4	30			120	()	1.02			
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	4	20			80	()	1.05	21		
	4	20			80	()	1.06	21		
							1.03			6
							1.07			4
	6	38			228	()	1.03	18		
	4	22			88	()	1.07	18		
							1.03			
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	2	19		38	() () ()	1.12	12		2
	2	5		10	() () ()	0.80	28		2
	3	49		147	() () ()	1.36	28		2
	2	24		48	() () ()	1.02	16		2
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	3	8		24	() () ()	0.41	16		
	2	28		56	() () ()	0.67	12		
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	3				()		14	
	2	28		56	()	1.23	22	2
	3	9		27	()	0.70	22	
	2	30		60	()	1.61	22	
	3	10		30	()	0.96	22	
	2	34		68	()	1.58	22	
	3	11		33	()	0.78	22	
	2	37		74	()	1.40	22	
	3	13		39	()	0.43	22	
	2	24		48	()	1.47	22	
	3	8		24	()	0.74	22	
	2	26		52	()	1.32	22	
	3	9		27	()	0.29	22	
	2	20		40	()	1.42	22	
	3	7		21	()	0.80	22	
	2	20		40	()	1.32	22	
	3	7		21	()	0.66	22	
	2	21		42	()	1.23	22	
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HSIM(Hiroshima university STARC
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	34		136
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	38		228
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	³ 140	10	580
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S p e c i a l i z a t i o n	Environmental Management	1 2		2					1 4									5							5	2	
	Development Technology	1 2		4					1 4									5							5	3	
	Transportation Engineering	1 2		2																					0	1	
	Transportation Planning	1 2		2																					0	1	
	Tourism Policy	1 2		2					1									1							1		
	Risk Management Technology	1 2		2																					0	1	
	Sustainable Architecture A	1 2		2						1								1							1		
	Sustainable Architecture B	1 2		2						1								1							1		
	Energy Science and Technology	1 2		2						1								1							1		
	Numerical Environmental Impact Assessment II	1 2		2						1								1							1		
	Botany Resources for the Future	1 2		2						1								1							1		
	Environmental Monitoring	1 2		2						1								1							1		
	Biomass Energy Technology	1 2		2						1								1							1		
	Ecosystem Conservation and Management Science	1 2		2						1								1							1		
	Management and Conservation of Ecosystems	1 2		2						1								1							1		
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z S a p t e i c o i n a l i	Energy Engineering and Management	1		5													2							2	2		
	Water Resources Management	1		5														1						1	1	1	
	Sustainable Energy Economics	1		5														1						1	1	1	
	Land Management	1		5															1					1	1	1	
	Environmental and Biodiversity Economics	1		5														1						1	1	1	
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	Project Management and Communication Skills	2		2.5													1							1	1	1	
	Material Flow Management	2		2.5													1							1	1		
	Sustainability Assessment of the Energiewende	2		2.5													1							1	1		
	Modelling in Resources Management	2		5													1							1	1	1	
	Entrepreneurship Management	2		5													1		1					2	2		
	Economics and Natural Resource Use and Conservation	2		5													1							1	1		
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Integration	15				
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S p e c i a l i z a t i o n	Environmental Management	1 2		2					1 4									5 2	
	Development Technology	1 2		4					1 4									5 3	
	Transportation Engineering	1 2		2														0 1	
	Transportation Planning	1 2		2														0 1	
	Tourism Policy	1 2		2					1									1 1	
	Risk Management Technology	1 2		2														0 1	
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	Sustainable Architecture B	1 2		2					1									1 1	
	Energy Science and Technology	1 2		2					1									1 1	
	Numerical Environmental Impact Assessment II	1 2		2					1									1 1	
	Botany Resources for the Future	1 2		2					1									1 1	
	Environmental Monitoring	1 2		2					1									1 1	
	Biomass Energy Technology	1 2		2					1									1 1	
	Ecosystem Conservation and Management Science	1 2		2					1									1 1	
	Management and Conservation of Ecosystems	1 2		2					1									1 1	
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		Hiroshima	<p style="text-align: center;">8</p> <p>41 2</p> <p>16 2</p> <p style="text-align: center;">Hiroshima</p> <p>20 1</p> <p>21 1</p> <p>43 2</p>	
		Japanese Experience of Social Development- Economy, Infrastructure, and Peace	<p style="text-align: center;">This course intends to discuss the issues of SDGs under the Guiding principles of Hiroshima University "Pursuit of Peace" 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 hisotorical aspect. Also inclusiveness is an important principle of SDGs, and thus all countries, developed and developing countries, should collaborate to tackle these.</p> <p>When considering these cross-disciplinary approach, histori, and inclusiveness of development, Japanese experience of development provides an important case, becuase 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 social development from the above aspects.</p> <p>lesson1 Guidance of the course lesson2 JICA chugoku center 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"</p> <p style="text-align: center;">Splendor Plan 2017 SDGs SDGs</p> <p style="text-align: center;">SDGs</p> <p style="text-align: center;">OECD</p>	

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			<p>SDGs</p> <p>18 47 2)(8</p> <p>53 5</p> <p>19 53 1)</p>	
			<p>ICT</p> <p>31 4 8</p> <p>R</p> <p>48 4</p> <p>AI</p>	

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		Basics in Social Sciences – International Studies	3 BRICS 45 9 Engel, Ulf 30 International Studies 12 Rietdorf, Ute 15 Development Economics	30 60
		Basics in Sustainable Development	45 1 Bruckner, Thomas 15 Integrated Assessment of global Climate Protection Strategies 3 Holländer, Robert 8 Sustainability and Corporate Environmental Management 17 Klauer, Bernd 7 Theories of Sustainability 10 Nissen, Sylke 15 Urban Geography, Sociology and Governance	60 30

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		Tourism Policy		
		Risk Management Technology	f&L	f&L
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		Sustainable Architecture B		
		Energy Science and Technology		
		Numerical Environmental Impact Assessment II		
		Botany Resources for the Future		
		Environmental Monitoring	=7D AG	

		Biomass Energy Technology		
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		Energy Engineering and Management	<p>45</p> <p>1 Bruckner, Thomas 30 Energy Management</p> <p>7 Thrän, Daniela 15 Energy Engineering</p>	60 30
		Water Resources Management	<p>45</p> <p>17 Klauer, Bernd 15 Economic Aspects of Water Resources Management</p> <p>15 Geyler, Stefan 30 Water Resources Management</p>	60 30
		Sustainable Energy Economics	2	60 30

			Python	GAMS
		Land Management	<p>45</p> <p>16 Fischer, Jens-Uwe 15 Integrated Brownfield Re-Use Strategies, Policies and Tools</p> <p>13 Meyer, Burghard 30 Land Management in the European Context Landscape Management</p>	<p>75</p> <p>15</p>
		Environmental and Biodiversity Economics		<p>30</p> <p>30</p> <p>30</p>
		Integration Module		
		Project Management and Communication Skills	<p>15</p> <p>4 Pahl, Burkhard 8 Project Management</p> <p>19 Saupe, Gerit 7 Conflict Management</p>	
		Material Flow Management	<p>LCA</p> <p>ISO LCA</p>	

		Sustainability Assessment of the Energiewende		
		Modelling in Resources Management	<p style="text-align: center;">45</p> <p>1 Bruckner, Thomas 30 Energy System and Agent Based Modelling</p> <p>18 Drechsler, Martin 15 Ecological-Economic Modelling for Biodiversity Conservation</p>	
		Entrepreneurship Management		<p style="text-align: right;">45 45</p> <p style="text-align: right;">4</p>
		Economics and Natural Resource Use and Conservation		<p style="text-align: right;">30 30 30</p>
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		Master's Thesis	<p>1 Bruckner, Thomas</p> <p>8 Dornberger, Utz</p> <p>9 Engel, Ulf</p> <p>16 Fischer, Jens-Uwe</p> <p>2 Gawel, Eric</p> <p>17 Klauer, Bernd</p> <p>11 Lehmann, Paul</p> <p>10 Nissen, Sylke EU</p> <p>4 Pahl, Burkhard</p>	

			5 Quaas, Martin	
			6 Schnabl, Gunther	
			7 Thrän, Daniela	
			14 Berribes-Flemmig, Claudia Nelly	
			15 Geyler, Stefan	
			13 Meyer, Burghard	
			12 Rietdorf, Ute	

		Hiroshima		
			<p style="text-align: center;">8</p> <p>41 2</p> <p>16 2</p> <p style="text-align: center;">Hiroshima</p> <p>20 1</p> <p>21 1</p> <p>43 2</p>	
		Japanese Experience of Social Development- Economy, Infrastructure, and Peace	<p style="text-align: center;">This course intends to discuss the issues of SDGs under the Guiding principles of Hiroshima University "Pursuit of Peace" 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 hisotorical aspect. Also inclusiveness is an important principle of SDGs, and thus all countries, developed and developing countries, should collaborate to tackle these.</p> <p>When considering these cross-disciplinary approach, histori, and inclusiveness of development, Japanese experience of development provides an important case, becuase 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 social development from the above aspects.</p> <p>lesson1 Guidance of the course lesson2 JICA chugoku center 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" lesson6 Junyi Zhang "History of environmental policies in Japan" lesson7 Osamu Yoshida "Japanese ODA and its Asia Policy" lesson8 Mari Katayanagi "Reconstruction of Hiroshima from Peacebuilding Perspective"</p> <p style="text-align: center;">Splendor Plan 2017 SDGs SDGs</p> <p style="text-align: center;">SDGs</p> <p style="text-align: center;">OECD</p>	

			<p>11 1 8</p> <p>12 MAHARJAN KESHAV LALL 1</p> <p>22 2</p> <p>23 1</p> <p>24 1</p> <p>25 2</p>	
			<p>SDGs</p> <p>18 47 2)(8</p> <p>53 5</p> <p>19 53 1)</p>	
			<p>ICT</p> <p>31 4 8</p> <p>R</p> <p>48 4</p> <p>AI</p>	

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		Environmental Management	4 15 4 1 1 1 6 TRAN DANG XUAN 1 7 1 8 5 9 3 9 8 1 40 1 6 TRAN DANG XUAN 9 8 7 40 1 4	

		Development Technology		
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		Transportation Engineering	ITS					
		Transportation Planning						
		Tourism Policy						
		Risk Management Technology	(1)	(3)	(2)			
		Sustainable Architecture A	35-40%					
		Sustainable Architecture B						
		Energy Science and Technology						
		Numerical Environmental Impact Assessment II	Numerical Environmental Impact Assessment I					

		Botany Resources for the Future		
		Environmental Monitoring	ICP-M	
		Biomass Energy Technology		
		Ecosystem Conservation and Management Science		
		Management and Conservation of Ecosystems		
		A	<p>4</p> <p>1</p> <p>2</p> <p>3</p> <p>5</p> <p>6 TRAN DANG XUAN ()</p>	

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		B		NGO
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		Basics in Economic Sciences	<p>45</p> <p>8 Dornberger, Utz 15 Value Chain Management Internationalization of SMEs</p> <p>2 Gawel, Eric 15 Sustainable Economics</p> <p>6 Schnabl, Gunther 15 International Finance</p>	
		Basics in Social Sciences – International Studies	<p>3</p> <p>BRICS</p> <p>45</p> <p>9 Engel, Ulf 30 International Studies</p> <p>12 Rietdorf, Ute 15 Development Economics</p>	30 60
		Basics in Sustainable Development	<p>45</p> <p>1 Bruckner, Thomas 15 Integrated Assessment of global Climate Protection Strategies</p> <p>3 Holländer, Robert 8 Sustainability and Corporate Environmental Management</p> <p>17 Klauer, Bernd 7 Theories of Sustainability</p> <p>10 Nissen, Sylke 15 Urban Geography, Sociology and Governance</p>	60 30

		Energy Engineering and Management	<p>45</p> <p>1 Bruckner, Thomas 30 Energy Management</p> <p>7 Thrän, Daniela 15 Energy Engineering</p>	60 30
		Water Resources Management	<p>45</p> <p>17 Klauer, Bernd 15 Economic Aspects of Water Resources Management</p> <p>15 Geyler, Stefan 30 Water Resources Management</p>	60 30
		Sustainable Energy Economics	<p>2</p> <p>GAMS Python</p>	60 30
		Land Management	<p>45</p> <p>16 Fischer, Jens-Uwe 15 Integrated Brownfield Re-Use Strategies, Policies and Tools</p> <p>13 Meyer, Burghard 30 Land Management in the European Context Landscape Management</p>	75 15
		Environmental and Biodiversity Economics		30 30 30

		Integration Module		
		Project Management and Communication Skills	<p>15</p> <p>4 Pahl, Burkhard 8 Project Management</p> <p>19 Saupe, Gerit 7 Conflict Management</p>	
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		Entrepreneurship Management	4	45 45
		Economics and Natural Resource Use and Conservation		30 30 30

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m11 Lehmann,nPauln
m17 Klauer,Berndv

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			14 Berribes-Flemmig, Claudia Nelly 15 Geyler, Stefan 13 Meyer, Burghard 12 Rietdorf, Ute	