List of Subjects for International Science and Technology Course, Graduate School of Science and Engineering

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Department		Class	Subject		Professor	Semester	Note *3	Day/Period	Class room
	31691001		Advanced Communications Engineering(E)	2	Jun Cheng	Fall		Wed/1	YE215
	31691002		Advanced Emergent Systems(E)	2	Katsunori Shimohara	Spring		Thu/2	TC3-105
	31691003		Advanced Language Processing(E)	2	not available this year	-		-	
			[Intended for students enrolled in 2014 and before] Advanced Programming Language(E)	-					
	31691008		[Intended for students enrolled in 2015 and after]	2	not available this year	-		-	
	04 004 004		Advanced Embedded Systems(E)						
	31691004		【Intended for students enrolled in 2014 and before】	2	not available this year	-		-	
	31691005		Advanced Nature-Inspired Computing(E)	2	Ivan Tanev	Fall		Thu/2	TC1-204
	31691006		Advanced Information and Computer Sciences(E)	2	Andrew Davis	Fall		Fri/3	TC1-315
	31031000		【Intended for students enrolled in 2017 and after】		Allulew Davis	i ali		111/ 3	101-313
	31691007		Internship(E)	2	Masashi Okubo			Intensive	
			Advanced Distributed Systems(E)						
	31691009		[Intended for students enrolled in 2015 and after]	2	Takahiro Koita	Spring		Fri / 1	JM202
			XPrior Registration Advanced Natural Language Processing(E)						
nformation and	31691010		【Intended for students enrolled in 2015 and after】	2	not available this year	-		-	
Computer			※Only for the students in the department of Information and Computer						
Science	31691011		Advanced Optimization Technologies(E)	2	Mitsunori Miki	Fall		Sat/2	TC1-121
	31031011		[Intended for students enrolled in 2015 and after]		IVIICSUITOTI IVIIKI	i an		out/ 2	101 121
	31691012		Advanced Knowledge Discovery in Databases(E)	2	Miho Ohsaki	Fall		Fri / 4	TC3-207
			[Intended for students enrolled in 2016 and after]		Chiara Kanada				TO1 200
	31691013		Information and Communication Technology(E) 【Intended for students enrolled in 2017 and after】	2	Shigeo Kaneda Akio Ida	Fall		Thu/1	TC1-306 TC1-307
	31691081			-	*1	Caring	1 ot voor	Intonoivo	101-307
			Research and Experimentsl (E) [For entrance in spring]	2	*1	Spring		Intensive	
	31691082		Research and Experiments II (E) [For entrance in spring]	2	·	Fall	1st year	Intensive	
	31691083		Research and Experiments III (E) [For entrance in spring]	2	*1	Spring	2nd year	Intensive	
	31691084		Research and ExperimentsIV(E) [For entrance in spring]	2	*1	Fall	2nd year	Intensive	
	31691091		Research and Experimentsl (E) [For entrance in fall]	2	*1	Fall	1st year	Intensive	
	31691092		Research and Experiments II (E) 【For entrance in fall】	2	*1	Spring	1st year	Intensive	
	31691093		Research and Experiments III (E) 【For entrance in fall】	2	*1	Fall	2nd year	Intensive	
	31691094		Research and ExperimentsIV(E) 【For entrance in fall】	2	*1	Spring	2nd year	Intensive	
	31691090		Master's Thesis(E)				*2		
	31692001		Advanced Infrastructure Engineering(E)	2	Naoto Nagaoka	Fall		Tue/2	TC1-229
	31692002		Advanced Opto-Electronic Waveguide€	2	Hiroyuki Toda	Fall		Thu/2	TC-3213
			Electrical Power Systems Engineering(E)						
	31692008		※This subject is compulsory for the studetns who enrolled in and after	2	Yoshihiro Baba	Spring	1st year	Fri/3	YE420
			2017 in the department of Electrical and Electronic Engineering.						
			Advanced Applications of Electronics(E)		Yoshihiro Baba				
	31692009		*This subject is compulsory for the studetns who enrolled in after 2017	2	*This subject may be taught	Fall	1st year	Wed/5	YE514
			in the department of Electrical and Electronic Engineering.		by an another Pfofessor.				
			Advanced Electrical and Electronic Engineering T (E)	1					
	31692010		**Only for the students in the department of Electrical and Electronic	2	Yoshihiro Baba	Spring	2nd year	Tue/2	YE514
			Engineering who have completed Code 31692008 or 31692009.						
Electrical and			Advanced Electrical and Electronic Engineering II (E)		Yoshihiro Baba				
Electronic	31692011		**Only for the students in the department of Electrical and Electronic	2	*This subject may be taught	Fall	2nd year	Tue/5	YE514
Engineering			Engineering who have completed Code 31692008 or 31692009.		by an another Pfofessor.				
	01.000007		1	0	V 131. D.I				
	31692007		Internship(E)	2	Yoshihiro Baba		A .	Intensive	
	31692081		Research and Experimentsl (E) 【For entrance in spring】	2	*1	Spring	1st year	Intensive	
	31692082		Research and Experiments II (E) [For entrance in spring]	2	*1	Fall		Intensive	
	31692083		Research and Experiments III (E) [For entrance in spring]	2	*1	Spring	2nd year	Intensive	
	31692084		Research and ExperimentsIV(E) [For entrance in spring]	2	*1	Fall	2nd year	Intensive	
	31692091		Research and ExperimentsI (E) [For entrance in fall]	2	*1	Fall	1st year	Intensive	
	31692092		Research and Experiments II (E) 【For entrance in fall】	2	*1	Spring	1st year	Intensive	
	31692093		Research and Experiments III (E) 【For entrance in fall】	2	*1	Fall	2nd year	Intensive	
	31692094		Research and ExperimentsIV(E) 【For entrance in fall】	2	*1	Spring	2nd year	Intensive	
	31692090		Master's Thesis(E)				*2		
	31693001		Advanced Fluid Dynamics(E)	2	Jiro Mizushima	Spring		Wed/3	TC3-109
	31693002		Advanced Mechanics of Materials(E)	2	Toru Fujii	Fall		Mon/3	TC3-109
	31693003		Advanced Spray Combustion Science(E)	2	Jiro Senda	Fall		Tue / 1	KK201
			Advanced Fluid Engineering(E)	2	Hiroshi Yamaguchi	Spring		Fri/5	TC1-125
	31693004			+ -	Hiroyuki Miyamoto	Spring	1	Fri/3	TC3-109
	31693004 31693005		Advanced Mechanical Materials(E)	2		Opinio		 	
		001	Advanced Mechanical Materials(E) Advanced Mechanical Engineering I (E)	2	Valter Carvelli	Fall		Intensive	
	31693005	001	·	+				Intensive -	
	31693005 31693006 31693007	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E)	2 2	Valter Carvelli not available this year			-	
Mechanical	31693005 31693006 31693007 31693008	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E) Internship(E)	2 2 2	Valter Carvelli not available this year Kazuya Okubo	Fall	1st veer	- Intensive	
Mechanical Engineering	31693005 31693006 31693007 31693008 31693081	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E) Internship(E) Research and ExperimentsI (E) [For entrance in spring]	2 2 2 2	Valter Carvelli not available this year Kazuya Okubo *1	Fall - Spring	1st year	- Intensive	
	31693005 31693006 31693007 31693008 31693081 31693082	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E) Internship(E) Research and ExperimentsI (E)	2 2 2 2 2 2	Valter Carvelli not available this year Kazuya Okubo *1	Fall - Spring Fall	1st year	Intensive Intensive Intensive	
	31693005 31693006 31693007 31693008 31693081 31693082 31693083	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E) Internship(E) Research and ExperimentsI (E)	2 2 2 2 2 2 2	Valter Carvelli not available this year Kazuya Okubo *1 *1	Fall - Spring Fall Spring	1st year 2nd year	Intensive Intensive Intensive Intensive	
	31693005 31693006 31693007 31693008 31693081 31693082 31693083 31693084	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E) Internship(E) Research and ExperimentsI (E)	2 2 2 2 2 2 2 2	Valter Carvelli not available this year Kazuya Okubo *1 *1 *1	Fall Spring Fall Spring Fall	1st year	Intensive Intensive Intensive	
	31693005 31693006 31693007 31693008 31693081 31693082 31693083	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E) Internship(E) Research and ExperimentsI (E)	2 2 2 2 2 2 2	Valter Carvelli not available this year Kazuya Okubo *1 *1	Fall - Spring Fall Spring	1st year 2nd year	Intensive Intensive Intensive Intensive	
	31693005 31693006 31693007 31693008 31693081 31693082 31693083 31693084	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E) Internship(E) Research and ExperimentsI (E)	2 2 2 2 2 2 2 2	Valter Carvelli not available this year Kazuya Okubo *1 *1 *1	Fall Spring Fall Spring Fall	1st year 2nd year 2nd year	Intensive Intensive Intensive Intensive Intensive	
	31693005 31693007 31693008 31693081 31693082 31693083 31693084 31693091	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E) Internship(E) Research and ExperimentsI (E)	2 2 2 2 2 2 2 2 2	Valter Carvelli not available this year Kazuya Okubo *1 *1 *1 *1	Fall Spring Fall Spring Fall Fall	1st year 2nd year 2nd year 1st year 1st year	Intensive Intensive Intensive Intensive Intensive Intensive	
	31693005 31693006 31693007 31693008 31693081 31693082 31693084 31693091 31693092	001	Advanced Mechanical Engineering I (E) Advanced Mechanical Engineering II (E) Internship(E) Research and ExperimentsI (E)	2 2 2 2 2 2 2 2 2 2	Valter Carvelli not available this year Kazuya Okubo *1 *1 *1 *1 *1 *1	Fall Spring Fall Spring Fall Fall Spring	1st year 2nd year 2nd year 1st year 1st year	Intensive Intensive Intensive Intensive Intensive Intensive Intensive	

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Department	Code	Class	Subject	Credits	Professor	Semester	Note *3	Day/Period	Class room
	21.004001				Masahito Kodera	0		T /0	TOO 110
	31694001		Advanced Organic Chemistry(E)	2	Tomoyuki Koga Tadashi Mizutani	Spring		Tue/2	TC3-112
					Minoru Inaba				
	31694002		Advanced Inorganic Chemistry(E)	2	Masaki Kato	Spring		Tue/1	TC3-112
					Yoshifumi Kimura	1-1			
	31694003		Advanced Physical Chemistry(E)	2	Akihisa Shioi	Fall		Fri/2	TC1-320
	31694004		Advanced Analytical Chemistry(E)	2	Kazuhiko Tsukagoshi	Fall		Tue/2	TC1-202
۸ ، ا : م ما	31694005		Advanced Transport Phenomena(E)	2	Katsumi Tsuchiya	Fall		Thu/3	TC3-109
Applied	31694006		Internship(E)	2	Tadashi Mizutani			Intensive	
Chemistry	31694081		Research and Experimentsl (E) 【For entrance in spring】	2	*1	Spring	1st year	Intensive	
	31694082		Research and Experiments II (E) 【For entrance in spring】	2	*1	Fall	1st year	Intensive	
	31694083		Research and Experiments III (E) [For entrance in spring]	2	*1	Spring	2nd year	Intensive	
	31694084		Research and ExperimentsIV(E) [For entrance in spring]	2	*1	Fall	2nd year	Intensive	
	31694091		Research and Experimentsl (E) [For entrance in fall]	2	*1	Fall	1st year	Intensive	
	31694092		Research and Experiments II (E) [For entrance in fall]	2	*1	Spring	1st year	Intensive	
	31694093		Research and Experiments III (E) [For entrance in fall]	2	*1	Fall	2nd year	Intensive	
	31694094		Research and ExperimentsIV(E) [For entrance in fall]	2	*1	Spring	2nd year	Intensive	
	31694090		Master's Thesis(E)				*2		
	31695001		Advanced Analysis(E)	2	Yoshitsugu Takei	Fall		Tue/1	TC1-319
	31695002		Advanced Numerical Analysis(E)	2	Mygdalskyy Volodymyr	Spring		Thu/2	TC3-208
	31695003		Advanced Difference / Differential Equations(E)	2	Seiji Saito	Fall		Wed∕3	TC1-230
	31695004		Advanced Natural Environment Studies(E)	2	not available this year	-		-	
	31695005		Advanced Earth and Planetary Environment Science(E)	2	Akira Hayashida	Fall		Tue / 1	TC1-325
	31695006		Advanced Ecology(E)	2	Hiroshi Takeda	Spring		Tue/5	TC1-201
	31695007		Advanced Environmental Systems Engineering(E)	2	Masatsugu Morimitsu	Spring		Wed/1	TC3-207
Science of	31695009		Advanced Human and Environmental Studies(E)	2	not available this year	-		-	
Environment	31695008		Internship(E)	2	Yoshihide Watanabe			Intensive	
and	31695081		Research and Experimentsl (E) 【For entrance in spring】	2	*1	Spring	1st year	Intensive	
Mathematical	31695082		Research and Experiments II (E) 【For entrance in spring】	2	*1	Fall	1st year	Intensive	
Modeling	31695083		Research and Experiments III (E) [For entrance in spring]	2	*1	Spring	2nd year	Intensive	
	31695084		Research and ExperimentsIV(E) 【For entrance in spring】	2	*1	Fall	2nd year	Intensive	
	31695091		Research and Experimentsl (E) 【For entrance in fall】	2	*1	Fall	1st year	Intensive	
	31695092		Research and Experiments II (E) [For entrance in fall]	2	*1	Spring	1st year	Intensive	
	31695093		Research and Experiments III (E) [For entrance in fall]	2	*1	Fall	2nd year	Intensive	
	31695094		Research and ExperimentsIV(E) [For entrance in fall]	2	*1	Spring	2nd year	Intensive	
	31695090		Master's Thesis(E)	1 -	-	3611118	*2		

All (Common Core Subjects)									
Department	Code	Class	Subject	Credits	Professor	Semester	Note *3	Day/Period	Class room
	31696501		Computation Structure(E) **Lectures will be given via internet	2	Hirohide Haga	Spring		-	
	31696502		Electric Circuit Theory(E)	2	Mami Matsukawa	Fall		Wed/4	TC1-201
	31696503		Nonlinear Physics(E)	2	Masanori Takaoka	Spring		Mon/4	TC1-107
ALL	31696504		Materials Chemistry(E)	2	Akiko Nomura	Spring		Mon/2	TC3-103
/\LL	31696505		Applied Mathematical Analysis(E)	2	Toshihiro Iwai	Fall		Tue/2	TC3-105
	31696506	001	Biology(E)	2	Masaya Ikegawa Rie Kusakabe	Fall		Fri / 4	TC1-129
	31696507		Neuroscience(E) [Intended for students enrolled in 2014 and after]	2	Kota Kobayashi	Spring		Fri / 2	TC3-104

epartment	Code	Class	Subject	Credits	Professor	Semester	Note *3	Day/Period	Class room
ALL	31696601		Ethics for Scientists and Engineers(E)	2	Philip Tromovitch	Spring		Thu/4	TC3-105
	31696602		Technology and Business Project Management(E)	2	Motoi Wada Makoto Sarata	Spring		Tue/3·4	JM404
	31696603	001	Science and Engineering Writing 1(E)	2	Michael David McAuliffe	Spring		Wed/3	TS101
	31696603	002	Science and Engineering Writing 1(E)	2	Michael David McAuliffe	Fall		Wed/2	TS101
	31696608	001	Science and Engineering Writing 2(E) 【Intended for students enrolled in 2014 and after】	2	Philip Tromovitch	Spring		Thu/3	TC3-105
	31696608	002	Science and Engineering Writing 2(E) 【Intended for students enrolled in 2014 and after】	2	Philip Tromovitch	Fall		Thu/4	TC3-213
	31696605		Presentation Skills for Scientists and Engineers(E)	1	Philip Tromovitch	Fall		Thu/3	TC3-213
	31696606		R & D Planning for Scientists and Engineers(E)	2	Motoi Wada	Fall		Mon/2	TC3-104
	31696607		Japanese Corporate Culture(E)	2	Makoto Sarata	Fall		Tue/3·4	JM203

^{*1} will be lectured by your supervisor

^{*2} register in final Spring semester

^{*3 1}st year = the first and second semester, 2nd year = the third and forth semester