Master's Program Subject and Completion Requirements 2025

Department of Information and Physical Sciences												
					School ho		ur a week			Necessary		
Code	Classific ation	A completion requirements item name and subject name	Instructor	Unit	Spring and	Fall and	Spring and	Fall and	Unit multiplication method	lower limit	Upper limit units	
					Summer Terms	Winter Terms	Summer Terms	Winter Terms		units		
		Total							1+2	30		
		1.Advanced Liberal Arts Educational subjects (selec	et from the attached list "	高度教	養教育科目	リスト(情報数	(理学専攻)])		2		
		2.Major Subjects Advanced Global Literacy Educat	ional subjects						(1)+(2) (1,1)+(1,2)	28		
		(1,1)Core Subjects(Required)							Σ	7		
331212	М	Exercises on Information and Physical Sciences I	All Staff	2	2	2						
331213 331214	M	Exercises on Information and Physical Sciences II Research on Information and Physical Sciences I	All Staff	2	2	2			_		_	
001211		(1,2)Core Subjects(Elective)	motan	Ū	1.0	1.0			Σ	0		
331203	M	Computational Informatics	(Undecided)	2					Ν			
331204	M	Mathematical Programming Tonics on Nonlinear Phenomena	Yutaro Yamaguchi Hidovuki Suzuki	2	2	9						
331206	M	Nonlinear Analysis	Sho Shirasaka	2	2	-						
331207	М	Applied Information Analysis	Yasumasa Fujisaki	2	2							
331208	M	Advanced Statistical Analysis	Hiroshi Morita	2	1	2						
331210	G·M	Seminar on Information and Physical Sciences I Seminar on Information and Physical Sciences II	All Staff	2	1	1						
331215	М	Research on Information and Physical Sciences II	All Staff	3			4.5	4.5				
331216	Μ	Special Lectures on Information and Physical Sciences I	Kai Morino	2	2							
		Special Lectures on Information and Physical	Morita • Iwatani •									
331217	М	Sciences II	Ichihashi • Konishi	2		2				\backslash		
331218	М	Information Physics I		2						\backslash		
331219	M	Information Physics II Intelligence and Learning	Yusuke Ogura	2		2						
001220												
331224	М	Knowledge Informatics	(Undecided)	2						\setminus		
331222	М	Advanced Introduction to Information Physical	All Staff	2	2					```	$\langle $	
		Science									\setminus	
			Yasumasa Fujisaki								$\langle \rangle$	
331223	Μ	Internship on Information and Physical Sciences	Hiroshi Morita	2	3	3						
			Hideyuki Suzuki									
		(2)Elective subject							(2,1)+(2,2)+(2,3)	0		
		(2,1)Inter-disciplinary Subjects							Σ	0		
			Kenji Yamada						Ν			
331226	М	Introduction to Smart Contracts	Kayo Yoshimoto	2	2				1			
			Kozou Ohtani									
			Staffs of dept. of									
			Information Systems									
331005	м	Information Technology and Ethics	Engineering Staffs of dont of	2	2							
551005	101	information recinology and itenes	Multimedia	4	2							
			Engineering									
331006	G·M	English Presentation Skills	(Michio Nakanishi) Bettina Wutzl	2	*2	*2						
		The Foundation of Intellectual Property (Focusing	(Shuichi Mukai)									
331014	М	on Computer Science)	(Tsuyoshi Masuda)	2		2						
			& Other Minoru Eto									
331030	М	Innovation Management	Yuko Sasahara	2	2							
		~	Takaaki Kitajima	-								
331130	M	Computational Mathematics I Computational Mathematics II	Daisuke Furihata Teuvoshi Chawanya	2	2	9						
331132	M	Applied Mathematics	Yoshie Sugiyama	2		2						
331135	М	Topics in Frontiers of Mathematics	Makoto Nakamura	2		2						
331325	М	Fundamentals of Computer Science	All staff of dept. of	2	2							
991990	м	Commutational Bhase marke	Hajime Nagahara	9		9			\			
331338	IVI	Computational Phogography	Tomoya Nakamura	z		2			. \			
331428	Μ	Advanced Computing Systems		2					\	l l		
991490	м	Advanced Information Systems	Noriyuki Miura	9	9					\		
551425	141	Advanced find mation Systems	Jun Shiomi Vochinghu Kawahara	4						\		
0.01400	м	Madia India Carpanai al Catana	Masahiro Ikeda	0	0					\		
331432	IVI	Machine Learning for Dynamical Systems	Takuya Konishi	z	2					\		
			Masahiro Fujisawa							\		
331525	Μ	Advanced Introduction to Information Networking	All staff of dept. of Information Networking	2		2				\		
			The land to be							\		
331621	Μ	Information Security	Takanori Isobe Kvosuke Yamashita	2	2							
331639	G•M	Studies on International Integrated Sciences	Leibnitz Kenji	2	9					\		
331033	G M	Studies on International Integrated Sciences	Ferdinand Peper	4								
			Taro Maeda							\		
331426	М	Introduction to Exercises on Information	Susumu Date	4	4	4				\		
		Engineering for Interactive Creation A	Yuki Uranishi Masahiro Furukawa	-	-	-				1	\	
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001500		Mala handi da da han	Ch. I	~							\setminus	
331702	IVI	woiecular Bio-information Analysis	Sulgeto Seno	z								
331720	М	Bio-network engineering		2]			

Department of Information and Physical Sciences

Code	Classific ation	A completion requirements item name and subject name	Instructor	Unit	School hour a week					1	
					1st.Grade		2nd.Grade		Unit multiplication	Necessary	Unner
					Spring and Summer Terms	Fall and Winter Terms	Spring and Summer Terms	Fall and Winter Terms	method	lower limit units	limit units
331724	М	Introduction to Bioinformatic Engineering	All staff of dept. of Bioinformatic Engineering	2	2						
331732	М	Introduction to Integrated Biological and Information Engineering	Hiroshi Shimizu Fumio Matsuda Yoshihiro Toya Nobuyuki Okahashi Teppei Niide	2	2						
		(2,2)Others								0	
		(2,3)Academic Internship Abroad							MAX{(2,3,1),(2,3,2)}	0	
		(2,3,1)								0	
331025	$G \cdot M$	Academic Internship Abroad M(S)	All Staff	4	6	6	(6)				
		(2,3,2)								0	
331027	$G \cdot M$	Academic Internship Abroad M(L)	All Staff	8	12	12	(12)				

Note)

1. Σ= Integrate the total number of credits for subjects with a slant line directly below.

2. MAX= Integrate only one subject with the maximum number of credits.

3. The class with * is held twice a year. However, registration is limited according to the department.

4. The class is not offered this year when the instructor's name field is blank.

The class is not offered this year when the instructor's name field is blank.
Requirements for Completion: Students must receive 30 credits or more from this table, and pass a final evaluation of their master's thesis. In the 30 credits, students must include 22 credits of Major subjects, 1 credit of Advanced Global Literacy Educational subjects, and 2 credits of Advanced Liberal Arts Educational subjects.
M1 students can register Academic Internship AbroadM(S),M(L) from "fall and winter terms" through "spring and summer terms".
"M" in the classification column represents Major subjects, "G" represents Advanced Global Literacy Educational subjects, and "G-M" represents subjects with both Advanced Global Literacy Educational and Major subjects is already Educational and Major subjects with both Advanced Global Literacy Educational subjects with both Advanced Global Literacy Educational subjects with both Advanced Global Literacy Educational subjects. If 1 credit of Advanced Global Literacy Educational subjects is already fulfilled, the credits will be included for Major subjects
With regard to Advanced Liberal Arts Educational subjects and Advanced Global Literacy Educational subjects offered by other graduates schools (or other institutions) in Osaka university, the subjects approved by Department of Information and Physical Sciences can be included for Requirements for Completion up to 2 credits for Advanced Liberal Arts and up to 1 credit for Advanced Global Literacy Educational subjects.
For details, please refer the attached "「高度教養教育科目リスト(情報数理学専攻)」「高度国際性涵養教育科目リスト(情報数理学専攻)」.