## Master's Program Subject and Completion Requirements 2024

Department of Information Networking

Departn	nent of I	nformation Networking	ī	ı	1	Sahaal ha	un a moole			1	1
	Classific ation	: A completion requirements item name and subject name	Instructor	Unit	1st.C		School hour a week ade 2nd.Grad		Unit	Necessary	
Code					Spring and Summer Terms	Fall and Winter Terms	Spring and Summer Terms	Fall and Winter Terms	multiplication method	lower limit units	Upper limit units
		Total							1+2	30	
		1.Advanced Liberal Arts Educational subjects (sel	ect from the attached list	"「高度す	效養教育科目	リスト(情報	ネットワーク学	牟専攻)」)		2	
		2.Major Subjects · Advanced Global Literacy Educa	ational subjects						(1)+(2)	28	
		(1)Core Subjects							(1,1)+(1,2)+(1,3)	22	
		(1,1)Core Subjects(Required)							Σ	4	
331521	M	Research on Information Netwoking Ia	All Staff	2	6						L
331522	M	Research on Information Netwoking Ib	All Staff	2		6			1		_
		(1,2)Core Subjects(Required Elective)							(1,2,1)+(1,2,2)	4	
		(1,2,1)Required Elective Subjects 1							Σ	2	2
331514	M	Exercises on Information Networking I	All Staff	2	4					1	
331527	M	Exercises on Information Security I	Hirozumi Yamaguchi Akira Uchiyama (Shingo Okamura)	2	2	2					_
		(1,2,2)Required Elective Subjects 2							Σ	2	2
331515	M	Exercises on Information Networking II	All Staff	2		4				1	ļ
331528	M	Exercises on Information Security II	Hirozumi Yamaguchi Akira Uchiyama (Shingo Okamura)	2	2	2					
		(1,3)Core Subjects(Elective)							Σ	0	
331003	М	Special Lectures on Information Science & Technology I	(Nobuyuki Shibano) (Hideharu Nakajima) (Hiroaki Sugiyama) (Masakazu Ishihata) (Takashi Hattori) (Masaya Hirashima) (Hiroshi Ban) (Yasushi Naruse)	2	2						
331004	М	Special Lectures on Information Science & Technology II	(Toshiyuki Kano) (Norihiko Taya)	2		2			] \		
331501	М	Information Network Design		2							
331502	M	Multimedia Network	Hideyuki Shimonishi Shin-ichi Arakawa	2		2			1 \		
331503	M	Information Network Architecture	Takashi Watanabe	2	2				1 \		
331504	M	Network Software	Shunsuke Saruwatari	2					1 \		
331506	М	Information Sharing Platform	Yuki Koizumi Koichi Takasugi Yasue Kishino Norihito Yasuda	2		2					
331507	М	Mobile Computing	Hirozumi Yamaguchi Akira Uchiyama Viktor Erdelyi	2	2				\	١	
331508	M	Mobile Communication Protocols		2						\	
331509	M	Gigabit Network	Masayuki Murata Yuichi Ohshita	2		2			1	\	
331510	M	High-Speed Network Architecture		2					1	\	
331511	M	Economics of Information Network	Hirozumi Yamaguchi Akira Uchiyama (Keita Arai)	2	2						
331512	G·M	Seminar on Information Networking I	All Staff	2	2					\	
331513	M	Seminar on Information Networking II	All Staff	2		2				\	
331520	M	Information Sharing Network Design		2						\	
331523	M	Research on Information Netwoking IIa	All Staff	2			6			\	
331524	M	Research on Information Netwoking IIb	All Staff	2				6		,	\
331525	M	Advanced Introduction to Information Networking	All Staff	2		2			]		\

Department of Information Networking

Departi	nent of L	nformation Networking				a 1 11			1	1	
	Classific ation	A completion requirements item name and subject name	Instructor	Unit	1st.0	School hour a week		Grade	Unit	Necessary	
Code					Spring and	Fall and	Spring and	Fall and	multiplication	lower	Upper limit units
		333,300			Summer Terms	Winter Terms	Summer Terms	Winter Terms	method	limit units	
331526	М	Internship on Information Networking	Masayuki Murata Takashi Watanabe Toru Hasegawa Hirozumi Yamaguchi Hideyuki Shimonishi Shinrichi Arakawa Shunsuke Saruwatari Yuki Koizumi Akira Uchiyama Yuichi Ohshita Daichi Kominami Takuya Fujihashi Junji Takemasa Tatsuya Amano	2	3	3					
		(2)Elective subject							(2,1)+(2,2)+(2,3)	0	
		(2,1)Inter-disciplinary Subjects							Σ	0	
331005	М	Informartion Technology and Ethics	Staffs of dept. of Information Systems Engineering Staffs of dept. of Multimedia Engineering (Michio Nakanishi)	2	2						
331006	$G \cdot M$	English Presentation Skills	Bettina Wutzl	2	*2	*2			\		
331014	M	The Foundation of Intellectual Property (Focusing on Computer Science)	(Shuichi Mukai) (Tsuyoshi Masuda) Others	2		2			] \		
331030	M	Innovation Management	Minoru Eto Yuko Sasahara	2	2						
331135	M	Topics in Frontiers of Mathematics	Makoto Nakamura	2		2			1		
331208	M	Advanced Statistical Analysis	Hiroshi Morita	2		2			1		
331222	M	Advanced Introduction to Information Pysical Science	All staff of dept. of Information and Physical Sciences	2	2				1		
331307	M	Algorithm Design	Toshimitsu Masuzawa	2		2			1		
331308	M	Theory of Distributed System Software	Taisuke Izumi	2					1		
			CI IZ		2				-		
331319	М	Theory of Software Design	Shinji Kusumoto	2	2				-		
331325	М	Fundamentals of Computer Science	All staff of dept. of Computer Science Yoshinobu Kawahara	2	2				-		
331431	M	Machine Learning Systems Theory	Takuya Konishi	2	2						
331408	M	Concurrent Systems		2							
331420	M	Dependable Systems	Tatsuhiro Tsuchiya	2	2						
331635	M	Big Data Engineering		2					\		
331636	M	Big Data Analytics	Makoto Onizuka Chuan Xiao	2	2				\		
331621	M	Information Security	Circuit Mao	2					1		
331622	M	Content Security	Atsuo Inomata	2	2				'	1	
331637	M	Robot Vision	Kyosuke Yamashita Yasuyuki Matsushita	2		2			†	\	
331639	G·M	Studies on International Integrated Sciences	Leibnitz Kenji Ferdinand Peper	2	2				-		
331709	M	Human Information Processing	Taro Maeda Masahiro Furukawa	2		2			1		
331720	M	Bio-network Engineering	Naoki Wakamiya	2	2						
331721	M	Basic Theory of Bio-networks		2						1	
331724	M	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 Taisuke Seike	2	2						
331031	М	Humanware Fundamentals I M	MAHZOON HAMED Satoru Iwasaki Shin'ichi Arakawa Hiroshi Shimizu	2	2						

## Master's Program Subject and Completion Requirements 2024

Department of Information Networking

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	Classific ation	: A completion requirements item name and subject name	Instructor	Unit	School hour a week  1st.Grade 2nd.Grade				Unit	Necessary	TT
Code					Spring and Summer Terms	Fall and Winter Terms	Spring and Summer Terms	Fall and Winter Terms	multiplication method	lower limit units	Upper limit units
331032	М	Humanware Fundamentals II M	Satoru Iwasaki Taisuke Izumi	2		2					
331033	М	Humanware Innovation Creation M	Toshimitsu Masuzawa Shigeru Kondo Hideyuki Takahashi	2		2					
331034	М	Humanware Seminar M	Ittetsu Taniguchi Nobuyuki Okahashi Yoshiki Higo MAHZOON HAMED Hiroshi Shimizu	2	1	1					
331035	M	Humanware Innovation Introduction M	Tatsuhiro Tsuchiya Naoki Wakamiya	2	1	1					\
331036	М	Humanware Communication M	Shin-ichi Arakawa Suguru Shimomura	2			1	1			
331037	M	Humanware Laboratory Rotation M	Yoshiki Higo	2	1	1					\
331038	М	Humanware Internship (Short Term) M	Takuya Maekawa Naoki Wakamiya Satoru Iwasaki	2	3	3					
331039	M	Humanware Internship (Long Term) M	Takuya Maekawa Naoki Wakamiya Satoru Iwasaki	4	6	6					\
		(2,2)Others								0	
		(2,3)Academic Internship Abroad							MAX{(2,3,1),(2,3,2),(2,3,3)}	0	
		(2,3,1)								0	
331040	G·M	Humanware Overseas Internship (Short Term) M	Yasuyuki Matsushita Satoru Iwasaki	2	3	3					
		(2,3,2)	_							0	
331025	$G \cdot M$	Academic Internship Abroad M(S)	All Staff	4	6	6	(6)				
331041	G · M	Humanware Overseas Internship (Long Term) M	Yasuyuki Matsushita Satoru Iwasaki	4	6	6					
		(2,3,3)								0	
331027	G · M	Academic Internship Abroad M(L)	All Staff	8	12	12	(12)				_

- 1.  $\Sigma$ = 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.
- $4. \ {\rm The} \ {\rm class}$  is not offered this year when the instructor's name field is blank.
- 5. 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' characteristics. If you have acquired subjects with both Advanced Global Literacy Educational and Major subjects' characteristics, the credits will be included preferentially for 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 Networking can be included for Requirements for Completion up to 2 credits for Advanced Liberal Arts Educational subjects and 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(情報ネットワーク学専攻)」「高度国際性涵養教育科目リスト(情報ネットワーク学専攻)」
  10. Only Humanware Innovation Program students can register subjects from 331036 to 331041.

The requirements to complete "SecCap" course shall be prescribed separately.