

Master's Program Subject and Completion Requirements 2018

Department of Information Systems Engineering

Code	A completion requirements item name and subject name	Instructor	Unit	School hour a week				Unit multiplication method	Necessary lower limit units	Necessary lower limit units		
				1st.Grade		2nd.Grade						
				Spring and Summer Terms	Fall and Winter Terms	Spring and Summer Terms	Fall and Winter Terms					
	Total							(1)+(2)	30			
	(1)Core Subjects							(1,1)+(1,2)+(1,3)	22			
	(1,1)Core Subjects(Required)							Σ	4			
331421	Research on Information Systems Engineering Ia	All Staff	2	6								
331422	Research on Information Systems Engineering Ib	All Staff	2		6							
	(1,2)Core Subjects(Required Elective)							(1,2,1)or(1,2,2)	4	4		
	(1,2,1)Required Elective Subjects 1							Σ	0			
331413	Exercises on Information Systems Engineering I	All Staff	2	4								
331414	Exercises on Information Systems Engineering II	All Staff	2		4							
	(1,2,2)Required Elective Subjects 2							0				
331426	Introduction to Exercises on Information Engineering for Interactive Creation A	Taro Maeda Haruo Takemura Toru Fujiwara Hideyuki Ando (Susumu Date) (Yuichi Ito)	4	4	4							
	(1,3)Core Subjects(Elective)										Σ	0
331003	Special Lectures on Information Science & Technology I	(Nobuyuki Shibano) (Masaaki Nishino) (Tomoharu Iwata) (Kishino Yasue) (Takaaki Tanaka) (Masaya Hirashima) (Hiroshi Ban) (Yasushi Naruse)	2	2								
331004	Special Lectures on Information Science & Technology II	(Kozo Kimura) (Hideaki Fukushima) (Kazuo Kajimoto) (Toshiyuki Kano) (Norihiko Taya) (Kousuke Nishihara) (Jyun Igarashi)	2		2							
331427	Embedded System Design	Masanori Hashimoto	2	2								
331402	Introduction to VLSI Design		2									
331404	Computer-Aided System-on-a-Chip Design		2									
331405	Integrated Systems Engineering	Koji Nakamae Katsuyoshi Miura	2	2								
331406	Image Signal Processing	Koji Nakamae Katsuyoshi Miura	2		2							
331408	Concurrent Systems		2									
331409	System Interface Design	Haruo Takemura Tomohiro Mashita	2	2								
331410	Design Methodology of Advanced Information Systems	Takao Onoye Ittetsu Taniguchi Yasuhiro Yoshida Kimihiro Imamura Shohei Yamada	2		2							
331411	Seminar on Information Systems Engineering I	All Staff	2	2								
331412	Seminar on Information Systems Engineering II	All Staff	2		2							
331419	Integrated System Architecture and Synthesis	Takao Onoye Ittetsu Taniguchi Yasuhiro Yoshida Kimihiro Imamura Shohei Yamada	2	2								
331420	Dependable Systems	Tatsuhiro Tsuchiya Hiroyuki Nakagawa	2	2								
331423	Research on Information Systems Engineering IIa	All Staff	2			6						
331424	Research on Information Systems Engineering IIb	All Staff	2				6					
331425	Internship on Information Systems Engineering	All Staff (Except Collaborative Division)	2	3	3							
	(2)Elective subject							(2,1)+(2,2)+(2,3)				
	(2,1)Inter-disciplinary Subjects							Σ	0			
331005	Informartion Technology and Ethics	Staffs of dept. of Information Systems Engineering Staffs of dept. of Multimedia Engineering (Michio Nakanishi)	2	2								
331006	English Presentation Skills	Eum Suyong	2	*2	*2							
331014	The Foundation of Intellectual Property (Focusing on Computer Science)	Hidefumi Aoe & Other	2		2							

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331030	Innovation Management	Minoru Eto Yuko Sasahara	2	2						
331203	Computational Informatics	Takayuki Wada	2		2					
331204	Mathematical Programming	Shunji Umetani	2	2						
331222	Advenced Introduction to Information Pysicscal Science	All staff of dept. of Information and Physical Sciences	2	2						
331307	Algorithm Design	Toshimitsu Masuzawa Hirotsugu Kakugawa	2		2					
331308	Theory of Distributed System Software		2							
331325	Fundamentals of Computer Science	All staff of dept. of Computer Science	2	2						
331332	Fundamentals of Software Development on Cloud Environment	Katsuro Inoue Shinji Kusumoto Shusuke Haruna & Other	2	2						
331333	Exercise for Software Development on Cloud Environment	Katsuro Inoue Shinji Kusumoto Shusuke Haruna & Other	2	2	2					
331336	Advanced PBL for Software Development on Cloud Environment	Katsuro Inoue Shinji Kusumoto & Other	2		2					
331503	Information Network Architecture	Takashi Watanabe Shunsuke Saruwatari	2	2						
331507	Mobile Computing	Teruo Higashino Hirozumi Yamaguchi	2	2						
331508	Mobile Communication Protocols		2							
331511	Economics of Information Network	Teruo Higashino Hirozumi Yamaguchi (Keita Arai)	2	2						
331525	Advanced Introduction to Information Networking	All staff of dept. of Information Networking	2		2					
331601	Architecture for Multimedia Systems	Shinji Shimojo Susumu Date Kazuhide Kojima Yoshivuki Kido	2	2						
331635	Big Data Engineering		2							
331636	Big Data Analytics	Makoto Onizuka Yuya Sasaki	2	2						
331621	Information Security		2							
331639	Studies on International Integrated Sciences	Leibnitz Kenji Ferdinand Peper Siriteanu Constantin	2	2						
331637	Robot Vision	Yasuyuki Matsushita	2		2					
331701	Bio-database Engineering		2							
331709	Human Information Processing	Taro Maeda Hideyuki Ando	2		2					
331720	Bio-network Engineering	Naoki Wakamiya Jun-nosuke Teramae	2	2						
331724	Introduction to Bioinformatic Engineering	All staff of dept. of Bioinformatic Engineering	2	2						
331732	Introduction to Integrated Biological and Information Engineering	Hiroshi Shimizu Yoshihiro Toya	2	2						
	(2,2)Others								0	
	(2,3)Academic Internship Abroad							MAX{(2,3,1),(2,3,2)}	0	
	(2,3,1)S								0	
331025	Academic Internship Abroad M(S)	All Staff	4	6	6	(※6)				
	(2,3,2)L								0	
331027	Academic Internship Abroad M(L)	All Staff	8	12	12	(※12)				

Note1) 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.
5. Requirements for Completion; Students must receive 30 credits or more from this table, and pass a final evaluation of their master's thesis.
6. M1 students can register Academic Internship AbroadM(S),M(L) from "fall and winter terms" through "spring and summer terms".

Note2) 1. The requirements to complete "Cloud Spiral" course shall be prescribed separately.
2. 331332, 331333 and 331336 are offered only for "Cloud Spiral" course students. (held at Nakanoshima center)