

Master's Program Subject and Completion Requirements 2018

Department of Multimedia 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	4
331625	Research on Multimedia Engineering Ia	All Staff	2	6						
331626	Research on Multimedia Engineering Ib	All Staff	2		6					
	(1,2)Core Subjects(Required Elective)							(1,2,1)or(1,2,2)or(1,2,3)or(1,2,4)	4	4
	(1,2,1)Required Elective Subjects 1							Σ	0	
331613	Exercises on Multimedia Engineering I	All Staff	2	4						
331614	Exercises on Multimedia Engineering II	All Staff	2		4					
	(1,2,2)Required Elective Subjects 2							Σ	0	
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					
	(1,2,3)Required Elective Subjects 3							Σ	0	
331527	Exercises on Information Security I	Morito Matsuoka Yuya Tarutani Naoto Yanai (Shingo Okamura)	2	2	2					
331528	Exercises on Information Security II	Morito Matsuoka Yuya Tarutani Naoto Yanai (Shingo Okamura)	2	2	2					
	(1,2,4)Required Elective Subjects 4							Σ	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)									
	(1,3,1)Subjects held at the university							Σ	0	
331601	Architecture for Multimedia Systems	Shinji Shimojo Susumu Date Kazuhide Kojima Yoshiyuki Kido	2	2						
331635	Big Data Engineering		2							
331636	Big Data Analytics	Makoto Onizuka Yuva Sasaki	2	2						
331610	Multimedia Agent	Norihiro Hagita Takahiro Miyashita Takayuki Kanda	2		2					
331611	Seminar on Multimedia Engineering I	All Staff	2	2						
331612	Seminar on Multimedia Engineering II	All Staff	2		2					
331619	Multimedia Data Engineering	Takahiro Hara Takuya Maekawa Tomoki Yoshihisa (Kaname Harumoto)	2	2						
331620	Database Systems		2							
331621	Information Security		2							
331622	Content Security	Toru Fujiwara Shotaro Miwa Takeshi Yoneda Tsutomu Yoshikawa	2	2						
331637	Robot Vision	Yasuyuki Matsushita	2		2					
331638	Machine Vision		2							
331627	Research on Multimedia Engineering IIa	All Staff	2			6				
331628	Research on Multimedia Engineering IIb	All Staff	2				6			
331629	Special Lectures on Multimedia Engineering	(Osamu Yonetani) (Osamu Shirakawa) (Yasuhiro Fujiwara) (Hideki Kashioka) (Toshiyasu Sugio) (Katsuyoshi Yamagami) (Masahiro Iwasaki)	2		2					
331639	Studies on International Integrated Sciences	Leibnitz Kenji Ferdinand Peper Siriteanu Constantin	2	2						
	(1,3,2)Subjects held outside the university							MAX{(1,3,2,1),(1,3,2,2)}	0	
	(1,3,2,1)								0	
331630	Internship on Multimedia Engineering	All Staff(Except Collaborative Division)	2	3	3					
	(1,3,2,2)								0	
331633	Collaborative Research in Multimedia Engineering	All Staff(Except Collaborative Division)	4	6	6					
	(2)Elective subject							(2,1)+(2,2)+(2,3)		

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	(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					
331030	Innovation Management	Minoru Eto Yuko Sasahara	2	2						
331135	Topics in Frontiers of Mathematics	Susumu Ariki	2		2					
331204	Mathematical Programming	Shunji Umetani	2	2						
331222	Advanced Introduction to Information Physical Science	All Staff	2	2						
331224	Knowledge Informatics	Kenichi Fukui	2		2					
331308	Theory of Distributed System Software		2							
331319	Theory of Software Design	Shinji Kusumoto Yoshiki Higo	2	2						
331337	Image Recognition	Yasushi Makihara Daigo Muramatsu	2		2					
331336	Advanced PBL for Software Development on Cloud Environment	Katsuro Inoue Shinji Kusumoto & Other	2		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						
331419	Integrated System Architecture and Synthesis	Takao Onoye Ittetsu Taniguchi Yasuhiro Yoshida Kimihiro Imamura Shohei Yamada	2	2						
331420	Dependable Systems	Tatsuhiko Tsuchiya Hiroyuki Nakagawa	2	2						
331501	Information Network Design		2							
331502	Multimedia Network	Morito Matsuoka Shin-ichi Arakawa	2		2					
331507	Mobile Computing	Teruo Higashino Hirozumi Yamaguchi	2	2						
331508	Mobile Communication Protocols		2							
331509	Gigabit Network	Masayuki Murata Go Hasegawa	2		2					
331510	High-Speed Network Architecture		2							
331511	Economics of Information Network	Teruo Higashino Hirozumi Yamaguchi (Keita Arai)	2	2						
331709	Human Information Processing	Taro Maeda Hidevuki Ando	2		2					
331723	Human Information Engineering		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									
	(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(Except Collaborative Division)	4	6	6	(※6)				
	(2,3,2)L								0	
331027	Academic Internship Abroad M(L)		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)

Note3) The requirements to complete "SecCap" course shall be prescribed separately.