

Master's Program Subject and Completion Requirements 2017

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 (Takashi Yoshikawa) (Lee Chonho)	2	2						
331635	Big Data Engineering	Makoto Onizuka Yuki Arase Yuya Sasaki	2	2						
331636	Big Data Analytics		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		2							
331620	Database Systems	Takahiro Hara Takuya Maekawa Tomoki Yoshihisa (Kaname Harumoto)	2	2						
331621	Information Security	Toru Fujiwara Yasunori Ishihara	2	2						
331622	Content Security		2							
331637	Robot Vision		2							
331638	Machine Vision	Yasuyuki Matsushita Yusuke Sugano Masaki Samejima	2		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)		
	(2,1)Inter-disciplinary Subjects							Σ	0	

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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					
331135	Topics in Frontiers of Mathematics	Satoshi Murai	2		2					
331204	Mathematical Programming	Shunji Umetani	2	2						
331224	Knowledge Informatics	Kenichi Fukui	2		2					
331306	Software Maintenance Engineering		2							
331319	Theory of Software Design	Shinji Kusumoto Yoshiki Higo	2	2						
331337	Image Recognition		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	Takao Onoye Ittetsu Taniguchi	2	2						
331405	Integrated Systems Engineering	Koji Nakamae Katsuyoshi Miura	2	2						
331406	Image Signal Processing	Koji Nakamae Katsuyoshi Miura	2		2					
331408	Concurrent Systems	Tatsuhiko Tsuchiya Hiroyuki Nakagawa	2	2						
331409	System Interface Design	Haruo Takemura	2	2						
331419	Integrated System Architecture and Synthesis		2							
331420	Dependable Systems		2							
331501	Information Network Design	Morito Matsuoka Shin-ichi Arakawa	2	2						
331502	Multimedia Network		2							
331507	Mobile Computing		2							
331508	Mobile Communication Protocols	Teruo Higashino Hirozumi Yamaguchi	2		2					
331509	Gigabit Network		2							
331510	High-Speed Network Architecture	Masayuki Murata Go Hasegawa	2	2						
331511	Economics of Information Network	Teruo Higashino Hirozumi Yamaguchi (Keita Arai)	2	2						
331709	Human Information Processing		2							
331723	Human Information Engineering	Taro Maeda Hideyuki Ando	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									
	(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)	All Staff(Except Collaborative Division)	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.