Doctor's Program Subject and Completion Requirement 2023

Department of Information and Physical Sciences

Code	Classification	subject name	Instructor	Unit Core Subjects	Unit Elective subject	1st.Grade Spring and Summer Terms	1st.Grade Fall and Winter Terms	2nd.Grade Spring and Summer Terms	2nd.Grade Fall and Winter Terms	remarks
333201	M	Advanced Operations Research	Yasumasa Fujisaki Hiroshi Morita Takayuki Wada Yutaro Yamaguchi		2	2				
333202	M	Advanced Nonlinear Systems Analysis	Hideyuki Suzuki Sho Shirasaka		2		2			
333205	M	Applied Information Physics	Jun Tanida Yusuke Ogura		2	2				
333206	M	Architecture for Intelligence	Msayuki Numao Kenichi Fukui		2		2			
333605	G・M	Advanced Integrated Sciences	Leibnitz Kenji Ferdinand Peper		2	2				
333406	M	Exercises on Information Engineering for Interactive Creation A	Taro Maeda Haruo Takemura Yuki Uranishi Susumu Date Yuichi Ito		4	4	4			
333706	M	Integrated Biological and Information Engineering	Hiroshi Shimizu Fumio Matsuda Yoshihiro Toya Nobuyuki Okahashi Teppei Niide Taisuke Seike		2	2				
333207	M	Internship on Information and Physical Sciences D	Yasumasa Fujisaki Jun Tanida Hiroshi Morita Masayuki Numao Hideyuki Suzuki		2	3	3	(3)		
333010	G・M	Academic Internship Abroad D(S)	All Staff		4	6	6	(6)		(Common subject for all departments)
333012	G・M	Academic Internship Abroad D(L)	All Staff		8	12	12	(12)		(Common subject for all departments)
333014	M	Humanware Fundamentals I D			2					
333015	M	Humanware Fundamentals II D			2					
333016	M	Humanware Innovation Creation D	Toshimitsu Masuzawa Shigeru Kondo Hideyuki Takahashi		2		2			
333017	M	Humanware Seminar D			2					
333018	M	Humanware Innovation Introduction D			2					
333019	M	Humanware Communication D			2					
333020	M	Humanware Interdisciplinary Project Studies D	Yoshiki Higo Hiroshi Shimizu Ittetsu Taniguchi Shin-ichi Arakawa Takuya Maekawa Nobuyuki Okahashi Taisuke Izumi Suguru Shimomura Satoru Iwasaki MAHZOON HAMED		4	2	2			
333021	M	Humanware Innovation Practice Seminar D			4					
333022	M	Humanware Innovation Activity D	Naoki Wakamiya		2	1	1			
333023	M	Humanware Laboratory Rotation D			2					
333024	M	Humanware PI Interdisciplinary Project Studies D	Hiroshi Shimizu		4	2	2			
333029	M	Advanced Humanware Innovation Practice D			2					
333025	M	Humanware Internship (Short Term) D	Takuya Maekawa Naoki Wakamiya Satoru Iwasaki		2	3	3			
333026	M	Humanware Internship (Long Term) D	Takuya Maekawa Naoki Wakamiya Satoru Iwasaki		4	6	6			
333027	G・M	Humanware Overseas Internship (Short Term) D	Yasuyuki Matsushita Satoru Iwasaki		2	3	3			
333028	G・M	Humanware Overseas Internship (Long Term) D	Yasuyuki Matsushita Satoru Iwasaki		4	6	6			

(Requirements for Completion)

Students must receive 4 credits or more, and pass a final evaluation of their doctoral thesis.

1. In the case of taking Internship on Information and Physical Sciences D, Academic Internship Abroad D(S), D(L),
   one unit will be accepted and included into the residency requirement.

2. D1,D2 students can register Internship on Information and Physical Sciences D, Academic Internship Abroad D(S), D(L) from "Fall and Winter Terms" through
   "Spring and Summer Terms".

3. "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.

4. Only Humanware Innovation Program students can register subjects from 333020 to 333028.

5. With regard to 333014 ~ 333019、333023、333025 ~ 333028, those who have already acquired M version of those subjects in Master course can't register D version
   of those in Doctoral Course.
   ex.) Those who have already acquired Humanware Fundamentals I M in the Master course can't register Humanware Fundamentals I D in the Doctoral course.