Doctor's Program Subject and Completion Requirement 2021

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		2	2				
333202	M	Advanced Nonlinear Systems Analysis	Hideyuki Suzuki Yoshitaka Yamamoto		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 Cruz Jason Paul Miranda		2	2				
333406	M	Exercises on Information Engineering for Interactive Creation A	Taro Maeda Haruo Takemura Toru Fujiwara Yuki Uranishi Susumu Date Yuichi Ito		4	4	4			
333706	M	Integrated Biological and Information Engineering	Hiroshi Shimizu Fumio Matsuda Yoshihiro Toya Nobuyuki Okahashi		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	MAHZOON HAMED Satoru Iwasaki Taisuke Izumi Hiroshi Shimizu Takahiro Hara		2	2				
333015	M	Humanware Fundamentals II D	Satoru Iwasaki Taisuke Izumi Yusuke Ogura Ittetsu Taniguchi Shin-ichi Arakawa Kenji Yasunaga Nobuyuki Okahashi Takahiro Hara		2		2			
333016	M	Humanware Innovation Creation D	Toshimitsu Masuzawa Takahiro Hara Shigeru Kondo Hiroshi Ishiguro		2		2			
333017	M	Humanware Seminar D	Nobuyuki Okahashi Ittetsu Taniguchi Fumihiko Ino MAHZOON HAMED Shin-ichi Arakawa Satoru Iwasaki Hiroshi Shimizu		2	1	1			
333018	M	Humanware Innovation Introduction D	Tatsuhiro Tsuchiya Naoki Wakamiya		2	1	1			
333019	M	Humanware Communication D	Yusuke Ogura Shin-ichi Arakawa Takahiro Hara		2	1	1			
333020	M	Humanware Interdisciplinary Project Studies D	Fumihiko Ino Hiroshi Shimizu		4	2	2			
333021	M	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			4					
333025	M	Internship (Short Term) D	Kenji Yasunaga Naoki Wakamiya Satoru Iwasaki		2	3	3			
333026	M	Internship (Long Term) D	Kenji Yasunaga Naoki Wakamiya Satoru Iwasaki		4	6	6			
333027	G・M	Overseas Internship (Short Term) D	Toru Fujiwara Satoru Iwasaki		2	3	3			
333028	G・M	Overseas Internship (Long Term) D	Toru Fujiwara 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 Liberal Arts Educational and Major subjects' characteristics.

4. Only Humanware Innovation Program students can register subjects from 333023 to 333028.

5. With regard to 333014, 333015, 333016, 333017, 333018, 333019, 333022, 333023, 333025, 333026, 333027, 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.