【For Students Enrolled In/After AY2017】 Information Systems Science and Engineering Cource Curriculum Chart

●:Mandatory Subjects ☐:Designated Registration Subjects ①②④:Number of Credits

subjects \ semester			1st Year Student		2nd Year Student		3rd Year Student		4th Year Student		Number of credits required for graduation
			1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester	
		Foreign Language Subjects	English 109①		Professional Communication 303②						10 or more
			English 110①		Academic Literacy 304②						
			Professional Communication 301②								
			Academic Literacy 302②								
	Liberal Arts Subjects	B group	See page 29～31 ※A separate application is required for some liberal arts subjects. For details, please refer to "Course Registration Guidebook", etc.								14 or more
Major Subjects	Major Foundation Subjects	Basic Science Subjects	Physics for Computer Science②	Systems Biology②							20 or more
			Physics for Computer Science –Exercises –②	Systems Biology – Exercises –②							
		Mathematics	☐Computing Mathematics②	☐Experimentation 2②	Statistical Analysis, Simulation, and Modeling 1②	Statistical Analysis, Simulation, and Modeling 2②	Applied Informatics 1②	Applied Informatics 2②			
			☐Experimentation 1②	☐Mathematical Foundations of Computer Science②	Introduction to Differential Equations②						
	Major Common Subjects	Information Science	☐Introduction to Information Systems Engineering②	Boolean Algebra and Logic Design②	Software Engineering②	Databases②					22 or more
			☐Professional Ethics②		Computer Networks②	Operating Systems②					
					Digital Signal Processing②	Computer Security②					
					Computer Architecture②	Computer Graphics②					
						Artificial Intelligence②					
		Global IT Subjects				Presentation Plus 401②	Writing for Publication 402②				
	Major Specific Subjects	Graduation Research subjects						●Graduation Research 1②	●Graduation Research 2②	●Graduation Research 3②	48 or more
		Information Systems Science and Engineering Course	●PBL: Problem Analysis and Modeling④	●PBL: Team-based Design④	●PBL: Creative Design④	●PBL: Team-based Creative Design④	●PBL: Design Evolution④				
				●Programming Practice 1②	●Programming Practice 2②	☐Imperative Programming②					
			☐Introduction to Programming②	☐Programming Language②	☐Data Structures and Algorithms②	Network Systems②	Distributed Systems②	☐Embedded Systems②			
			☐Introduction to OOA, OOD, and UML②			Human Interface②	Web Information Engineering②	☐Data Science②			
							☐Visualization and Computer Art②	☐Advanced Computer Graphics②			
							Image Processing②	Pattern Recognition and Machine Learning②			
							☐Ergonomics and Affective Engineering②	☐Numerical Algorithms②			
	Global Development Subjects	Global IT Program		Foreign Exchange IT Training Program (QUT)④, (DJU)②		International Internship②	Foreign Exchange IT Training Program (SCIT)④				100 or more
		Selected Topics	Selected Topics (International Career Preparation)②								
											124 or more