Information Systems Science and Engineering Cource Curriculum Chart

●:Mandatory Subjects　□:Automatic Registration Subjects　◎:Mandatory Registration Subjects　①②④:Number of Credits

subjects \ semester			1st Year Student		2st Year Student		3st Year Student		4st Year Student		Number of credits required for graduation
			1st Semester	2st Semester	3st Semester	4st Semester	5st Semester	6st Semester	7st Semester	8st Semester	
Foreign Language Subjects			English 109① English 110① Professional Communication 301② Academic Literacy 302②		Professional Communication 303② Academic Literacy 304②						10 or more
Liberal Arts Subjects		B group	※Some Liberal Arts Subjects must be applied for separately. For details, please read the "Registration Guidebook".								14 or more
Major Subjects	Major Subjects / Major Foundation	Basic Science Subjects	Physics for Computer Science② Physics for Computer Science -Exercises -②	Systems Biology② Systems Biology - Exercises -②							20 or more
		Mathematics	□Computing Mathematics② □Experimentation 1②	□Experimentation 2② □Mathematical Foundations of Computer Science②	Statistical Analysis, Simulation, and Modeling 1② Introduction to Differential Equations②	Statistical Analysis, Simulation, and Modeling 2②	Applied Informatics 1②	Applied Informatics 2②			
	Major Subjects / Common	Information Science	□Introduction to Information Systems Engineering② □Professional Ethics②	Boolean Algebra and Logic Design②	Software Engineering② Computer Networks② Digital Signal Processing② Computer Architecture②	Databases② Operating Systems② Computer Security② Computer Graphics② Artificial Intelligence②					22 or more
		Global IT Subjects			Information Science in Action②	Presentation Plus 401②	Writing for Publication 402②				
	Major Subjects / Specific	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 ◎Introduction to Programming② ◎Introduction to OOA, OOD, and UML②	●PBL: Team-based Design④ ●Programming Practice 1② ◎Programming Language②	●PBL: Creative Design④ ●Programming Practice 2② ◎Data Structures and Algorithms②	●PBL: Team-based Creative Design④ ◎Imperative Programming② Network Systems② Human Interface②	●PBL: Design Evolution④ Distributed Systems② Web Information Engineering② ◎Visualization and Computer Art② Image Processing② ◎Ergonomics and Affective Engineering②	◎Embedded Systems② ◎Data Science② ◎Advanced Computer Graphics② Pattern Recognition and Machine Learning② ◎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