【2024 Enrollment】 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 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 Foundation**	**Basic Science Subjects**	Physics② Exercises in Physics②								**20 or more**
		Mathematics	☐Engineering Mathematics 1②	☐Engineering Mathematics 2② ☐Engineering Mathematics 3②	Introduction to Differential Equations② Introduction to Probability and Statistics②	☐Engineering Mathematics 4② Statistical Analysis, Simulation, and Modeling②	Applied Informatics 1②	Applied Informatics 2② Optimization and Control Theory②			
	Major Subjects Common	**Information Science**	☐Introduction to Information Systems Engineering② ☐Professional Ethics② ☐Introduction to Experimentation②	Boolean Algebra and Logic Design② ☐Experimental 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			Writing for Publication 402② Writing for Information Systems Engineering②	Presentation Plus 401② Advanced Academic Reading 403② Presentation for Information Systems Engineering②					
	Major Specific Courses	**Graduation Research subjects**						●Graduation Research 1②	●Graduation Research 2②	●Graduation Research 3②	**48 or more**
		Information Systems Science and Engineering Course	●PBL 1: Problem Analysis and Modeling④ ☐Introduction to Programming② ☐Introduction to OOA, OOD, and UML②	●PBL 2: Team-based Design④ ●Programming Practice 1② ☐Programming Language②	●PBL 3: Creative Design④ ●Programming Practice 2② ☐Data Structures and Algorithms②	●PBL 4 Team-based Creative Design④ ☐Imperative Programming② ☐Imperative Programming Practice② Network Systems② Human Interface②	●PBL 5: Design Evolution④ Distributed Systems② Web Information Engineering② Image Processing② Systems Ergonomics②	☐Data Science② Pattern Recognition and Machine Learning② Introduction to Robotic Systems② Data Visualization②			
	Subjects Development Courses	**Global IT Program**		Overseas Training Program for IT and English A④, B② Overseas Training Program for Professional IT A②, B④				International Internship②			**100 or more**
		Selected Topics	Selected Topics(International Career Preparation)②								
											124 or more