Faculty of Science and Technology / Department of Information Engineering

Curriculum

Basic Interdisciplinary Subjects in Science and Technology

■ − Compulsory Elective Subjects   ■ − Elective Subjects

Classes	1st Year	2nd Year	3rd Year	4th Year
Basic Interdisciplinary Subjects in Science and Technology	English Communication Ⅰ・Ⅱ German Ⅰ・Ⅱ French Ⅰ・Ⅱ Chinese Ⅰ・Ⅱ Science of Physical Education Ⅰ・Ⅱ Basic Humanities Ⅰ・Ⅱ Basic Social Science Ⅰ・Ⅱ Basic Seminar Ⅰ・Ⅱ	English CommunicationⅢ・Ⅳ GermanⅢ・Ⅳ FrenchⅢ・Ⅳ ChineseⅢ・Ⅳ Science of Physical EducationⅢ・Ⅳ Area Studies(Europe & America) Ⅰ・Ⅱ Area Studies(Asia) Ⅰ・Ⅱ	Literature Psychology Japanese Constitution International Relations International Economics Practical English Ⅰ・Ⅱ	

Specialized Education Department of Information Engineering

■ − Compulsory Subjects   ■ − Compulsory Elective Subjects   ■ − Elective Subjects   ■ − Free Elective Subjects

Classes		1st Year	2nd Year	3rd Year	4th Year
Specialized Education	**Basic Science and Technology Subjects**	Calculu Ⅰ・Ⅱ Physics Ⅰ・Ⅱ Experiments in Physics Ⅰ・Ⅱ Experiments in Earth Science Ⅰ・Ⅱ Introduction of Science and Technology Basics of Mathematics Ⅰ・Ⅱ Chemistry Review Course Ⅰ・Ⅱ Linear Algebra Ⅰ・Ⅱ Physics Exercise Chemistry Ⅰ・Ⅱ Biology Computer Literacy Physics Review Course Ⅰ・Ⅱ English Review Course Ⅰ・Ⅱ	Earth Science Ⅰ・Ⅱ Experiments in Biology Ethics for Engineers	Experiments in Earth Science Ⅰ・Ⅱ	
	Information Devices	Computer Architecture Ⅰ	Digital Circuits Ⅰ・Ⅱ Electrical and Electronic Circuits Ⅰ Digital Signal Processing Ⅰ	Computer Architecture Ⅱ Electrical and Electronic Circuits Ⅱ Digital Signal Processing Ⅱ Embedded Systems Systems and Control Ⅰ・Ⅱ Hardware Description Languages	Introductory Sensing Engineering Robotic Systems
	Information Processing		Algorithms and Data Structures Ⅰ Operating Systems Database Systems Software Engineering Languages and Automata	Algorithms and Data Structures Ⅱ Artificial Intelligence Numerical Analysis Compilers Programming Languages Pattern Recognition	Algorithms and Problem Solving Mathematical Programming
	Information Media	Basic Multimedia	Image Processing	Computer Graphics Computer Vision KANSEI Information Processing Speech and Acoustic Signal Processing	Virtual Reality Language Processing
	Information and Communications	Information and Communication Networks	Information Theory	Information Security Information and Communication Systems Theory of Signal Transmission	Coding Theory Wireless Communications
	Common	Introduction to Information Engineering Execises of Information Engineering Technical Literacy Discrete Mathematics Probability Theory Programming Exercises Ⅰ・Ⅱ	Statistical Analysis Information Mathematics Applied Analysis Electromagnetics Ⅰ・Ⅱ Programming ExercisesⅢ・Ⅳ Experiments of Information Engineering Ⅰ Experiments of Information Engineering Ⅱ	Experiments of Information EngineeringⅢ Internship Seminar Professional Applications of Information Technology	Graduation Research