Faculty of Information Engineering

Curriculum

Liberal Arts Education

◆-Compulsory Subject　●-Compulsory Elective Subjects　○-Elective Subjects

Classes	1st Year	2nd Year	3rd Year	4th Year
Basic Interdisciplinary Subjects	●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 Communication Ⅲ・Ⅳ ●German Ⅲ・Ⅳ ●French Ⅲ・Ⅳ ●Chinese Ⅲ・Ⅳ ○Science of Physical Education Ⅲ・Ⅳ ○Area Studies(Asia) Ⅰ・Ⅱ ○Area Studies(Europe & America) Ⅰ・Ⅱ	●Practical English Ⅰ・Ⅱ ○International Relations ○Literature ○Japanese Constitution ○International Economics ○Psychology ○Vocational Guidance	

Specialized Education Department of Information Engineering

◆-Compulsory Subject　●-Compulsory Elective Subjects　○-Elective Subjects　□-Free Elective Subjects

Classes		1st Year	2nd Year	3rd Year	4th Year
Specialized Education	Science and Technology Basic Subjects	●Calculus Ⅰ・Ⅱ ●Linear Algebra Ⅰ・Ⅱ ●Phisics Ⅰ・Ⅱ ●Phisics Exercise ●Experiments in Physics Ⅰ・Ⅱ ●Chemistry Ⅰ・Ⅱ ○Experiments in Chemistry Ⅰ・Ⅱ ○Biology ○Introduction of Science and Technology ●Computer Literacy □Mathematics Review Course Ⅰ・Ⅱ □Physics Review Course Ⅰ・Ⅱ □Chemistry 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 Engineering Basic Subjects	●Introduction to Information Engineering ●Execises of Information Engineering ●Technical Literacy ●Practical ICT			
	Information Engineering Specialized Subject	●Information and Communication Networks ●Computer Architecture Ⅰ ●Basic Multmedia ●Discrete Mathematics ●Probability and Statistics ◆Programming Exercises Ⅰ・Ⅱ ○Global Activity Seminar ●(C)◆(P) Creative Thinking	●Information Theory ●Digital Circuits Ⅰ・Ⅱ ●Electrical and Electronic Circuits Ⅰ ●Digital Signal Processing Ⅰ・Ⅱ ●Algorithms and Data Structures ●Operating Systems ●Database Systems ●Software Engineering ●Languages and Automata ●Image Processing ◆Introduction to Data Science ●Applied Analysis ○Electromagnetics ●Programming Exercises Ⅲ・Ⅳ ◆Experiments of Information Engineering Ⅰ ●Experiments of Information Engineering Ⅱ □Mobile Application Development A・B ○(C)◆(P) Research and Development Literacy ○(C)◆(P) Application Development ○(C)◆(P) Introduction to PBL	●Information Security ●Information and Communication Systems ●Theory of Signal Transmission ●Computer Architecture Ⅱ ●Electrical and Electronic Circuits Ⅱ ●Systems and Control ●Physical Computing ●Hardware Description Languages ●Artifical Intelligence ●Numerical Analysis ●Compilers ●Programming Languages ●Pattern Recognition ●Computer Graphics ●Computer Vision ●KANSEI Information Processing ●Speech and Acoustic Signal Processing ○Internship ●Career Seminar ●Reseach Seminar ●(C) Information Engineering Comprehensive Seminar ●(C) Professional Applications of Information Technology ●(C)◆(P) PBL Experiments Ⅰ ●(P) PBL Experiments Ⅱ ◆(P) PBL Seminar	●Coding Theory ●Wireless Communications ●Introductory Sensing Engineering ●Integrated Circuit Design ●Advanced Algorithms ●Mathematical Programming ●Virtual Reality ●Language Processing ◆Graduation Research

(C)＝Comprehensive Course、(P)＝PBL Course