

Curriculum

Liberal Arts Education

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

Classes	1st Year	2nd Year	3rd Year	4th Year
Basic Interdisciplinary Subjects	<ul style="list-style-type: none"> ●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 	<ul style="list-style-type: none"> ●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 	<ul style="list-style-type: none"> ●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
Science and Technology Basic Subjects	<ul style="list-style-type: none"> ●Calculus I · II ●Linear Algebra I · II ●Physics I · II ●Physics 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 	<ul style="list-style-type: none"> ○Earth Science I · II ○Experiments in Biology ●Ethics for Engineers 	<ul style="list-style-type: none"> ○Experiments in Earth Science I · II 	
Information Engineering Basic Subjects	<ul style="list-style-type: none"> ●Introduction to Information Engineering ●Execises of Information Engineering ●Technical Literacy ●Practical ICT 			
Specialized Education Information Engineering Specialized Subject	<ul style="list-style-type: none"> ●Information and Communication Networks ●Computer Architecture I ●Basic Multimedia ●Discrete Mathematics ●Probability and Statistics ◆Programming Exercises I · II ○Global Activity Seminar ●(C)◆(P) Creative Thinking 	<ul style="list-style-type: none"> ●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 	<ul style="list-style-type: none"> ●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 ●Artificial 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 ●(P) Professional Applications of Information Technology ●(C)◆(P) PBL Experiments I ●(P) PBL Experiments II ◆(P) PBL Seminar 	<ul style="list-style-type: none"> ●Coding Theory ●Wireless Communications ●Introductory Sensing Engineering ●Integrated Circuit Design ●Advanced Algorithms ●Mathematical Programming ●Virtual Reality ●Language Processing ◆Graduation Research