

Four-year course planning table for the Information Engineering Group of the Department of Information Engineering

110 學年度第二學期第四次系務會議通過 111.06.16
 110 學年度第二學第二次院課規會議通過 111.06.23
 111 學年度第 3 次校級課程規劃委員會會議通過 112.05.03

	First Grade		Second Grade		Third Grade		Fourth Grade	
	Last Term	Next Term	Last Term	Next Term	Last Term	Next Term	Last Term	Next Term
Compulsory	English (I) (2) Physical Education(I) (0)	English (II) (2) Physical Education (II) (0)	English (III) (1)	English(IV)(1)				
General Studies	核心通識課程：通識課程分為「社會關懷(含“人文涵養”及“社會習察” 2 向度)」、「創新創意(含“藝術感知”及“科學探究” 2 向度)」、「健康促進(含“自我探索”及“生醫衛保” 2 向度)」三類，每類之核心通識課程至少必須修習兩門，需 12 學分；多元選修：需修 10 學分，共 11 門課 22 學分							
calibration	Intercollege Micro Programs(3)							
Department of compulsory	Discrete Mathematics (3) Introduction to Computer (3) ★ C Programming Design (3) C programming practice (1) (1)	Calculus (3) C++Programming Design (3) C programming practice (II) (1)	Data structures (3) Linear Algebra (3)	Probability (3) Logic Electronic (3)	Intro. to Computer Algorithms (3) Computer Network (3)	Operating System (3) Computer Architecture (3) Project Implementation (1)	Project Implementation (1)	
number of credits	10	7	6	6	6	7	1	0
Required of Elective				Innovative Information Technology and Application (3)				
Elective	English for Science and Technology (1) (3)* Visual Programming Logic and Design (3)★ Fundamental Electronics (3)	The implementation and applications of programming (3) * English for Science and Technology (II) (3) * Information Application Software (3) Multimedia Softwares (3) The Internet and Applications (3) Artificial Intelligence (3) ★	Introduction to UNIX Operating System (3) Robot Programming (3)* Matlab Programming (3) Digital Image Editing (3) Windows Programming (3) Engineering Mathematics (3) Combinatorial Mathematics (3) Introduction to Cloud Computing (3) Multimedia Technology and Application (3) Python Programming (3) Introduction to Game Design (3)	Advanced Linear Algebra (3) * JAVA Programming (3)* Digital signal processing (3) Advanced Matlab Programming (3) Problem Solving and Programming Techniques (3) Interactive Multimedia Systems (3) APP Design and Application (3) Advanced Python Programming (3) Advanced Data Structure (3) Database System (3) Introduction to Internet of Things (3) Assembly Language (3) Digital Music Editing and Production (3)	OCA, Java Programmer (3) Computer Graphics (3) Cisco Certified Network Associate (CCNA) I (3) * Image Processing (3) Oracle Database SQL Certified Expert (3) iOS APP Programing (3) Video Editing and Digital Design (3) Introduction to VLSI (3) Statistics (3) Software Engineering (3) * System Programming (3) Microprocessor System (3) Web Design and Programming (3)	OCP, Java Programmer (3) Computer Animation (3) Cisco Certified Network Associate (CCNA) II(3) Oracle Database Administrator Certified Associate (3) Android APP Programming (3) Practical Robot Programming (3) Programming Language (3) Introduction to Graphs (3) Compilers (3) * Advanced Web Programming (3) Statistical Practice (3) Introduction to Machine Learning (3) Artificial Intelligence (3)	Digital Audio Signal Processing (3) Wireless Network (3) Electronic Commerce (3) Computer Vision (3) Professional Internships (3) Data Mining (3) * All Semester Internships (9) Wireless ad hoc and sensor networks (3) Machine Learning (3) Network Security Practice (3)	Video processing (3) Pattern Recognition (3) Professional Internships (3) Information Project Implementation (3) Digital Learning (3) Big Data Analysis and Applications (3) All Semester Internships (9) Internet of Things-Theory and Implementation (3) Deep Learning (3) Cloud Security (3) UAV Unmanned Aerial Vehicle (3) Practical Game Design (3)
number of credits	9	18	33	41	39	39	36	42