

Four-year course planning table for the Artificial Intelligence group of the Department of Information Engineering

107 學年第二學期第三次系務會議通過 108.06.03

107 學年第二學期第三次院課規會議複審通過

	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) All-out Defense Education Military Training-International Situations(0)	English (II) (2) Physical Education (II) (0) All-out Defense Education Military Training-Defense Technology(0)	English (III) (1) Physical Education(0)	English(IV)(1) Physical Education(0)				
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	Calculus (3) Introduction to Computer (3) ★ C Programming Design (3) C programming practice (1) (1)	Discrete Mathematics (3) C++Programming Design (3) C programming practice (II) (1) Introduction of Artificial Intelligence (3) ★	Data structures (3) Linear Algebra (3) Python Programming (3)	Database System (3) Probability (3)	Intro. to Computer Algorithms (3)	Project Implementation (1) Artificial Intelligence (3)	Project Implementation (1)	
number of credits	10	10	9	6	3	4	1	0
Required of Elective				Innovative Information Technology and Application (2)				
Elective	English for Science and Technology (I) (3)* Visual Programming Logic and Design (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)	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) 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) Introduction to Internet of Things (3) Assembly Language (3) Logic Electronic (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) Computer Network (3)	OCP, Java Programmer (3) Computer Animation (3) Cisco Certified Network Associate (CCNA) II (3) Oracle Database Administrator Certified Associate (3) Android APP Programing (3) Practical Robot Programming (3) Programming Language (3) Introduction to Graphs (3) Operating System (3) Computer Architecture (3) Compilers (3) * Advanced Web Programming (3) Statistical Practice (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) Intelligent A01 Project Implementation (1) Practical Game Design (3)
number of credits	6	15	30	41	42	39	36	43