②國玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese				學年/學期 Academic Year/Se		114/1	
課程名稱(英文) Course Name in English	Introduction to Computer Science						
科目代碼 Course Code	DN\$1 10030	系級 Department & Year		開課單位 Course-Offering Department			
修別 Type	Program	學分數/時間 Credit(s)/Hour(s)		3.0/3.0			
授課教師 Instructor	/						
先修課程 Prerequisite							

課程描述 Course Description

This course is designed to provide students with the essential introductory concepts of computer science, aiming to equip them with the knowledge of applications relevant to business and management. Covering essential materials such as computer systems, the internet, number systems, and logic, the curriculum also introduces modern topics like the Internet of Things (IoT), machine learning, and artificial intelligence at an introductory level. Targeted at those with limited exposure to computer science, the course prepares students for globalized business and technology environments, focusing on leveraging computer science to enhance management strategies and operations. The course is also delivered in English.

課程目標 Course Objectives

授課進度表 Teaching Schedule & Content

This course provides a comprehensive overview of fundamental topics in computer science. Students will gain basic knowledge about computers, data manipulation and abstraction, computer architecture and organization, software development, operating systems, databases, networks, multimedia, and artificial intelligence. By the end of the course, students will have a solid foundation and knowledge in computer science, making them well-prepared for further advanced studies in advanced fields.

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

週次Week 內容 Subject/Topics 備註Remarks 1 Ori entati on Computer Systems 3 Number Systems 1 Number Systems 2 5 Data Operations and Storage 1 Data Operations and Storage 2 6 7 Computer Networks 8 Algorithms 9 Mildterm Exam 10 Data Structure 11 Introduction to Database Management

12)	Introduction to Cybersecurity						
13	3	Introduction to Internet-of-Things						
14		Introduction to Artificial Intelligence						
15		Introduction to Machine Learning						
16)	Introduction to Data Science and Data Mining						
17	,	Social Media and Digital Marketing						
18	3	Fi nal Exam						
		教學策略 Teaching Strategies						
✓		Lecture Group Discussion Field Trip						
✓	✓ Miscel I aneous: <u>kahoot!</u>							
		教學創新自評 Teaching Self-Evaluation						
	(Innovati ve Teachi ng)						
		(PBL) (TBL) (SBL)						
		Flipped Classroom Mocs						
	(:	Social Responsibility)						
		Community Practice Industy-Academia Cooperation						
	(Transdi sci pl i nary Proj ects)						
	Transdi sci pl i nary Teachi ng Inter-col l egi ate Teachi ng							
		Courses Co-taught with Industry Practitioners						
	ot hei	r:						

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例 Percentage	多元評量方式 Assessments							
Items		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
() General Performance (Attendance Record)	20%		~						
Midterm Exam	30%	~							
Fi nal Exam	30%				~				
Homework and/or Assignments	20%		~						
Miscel I aneous			- 早大十分						

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

其他補充說明(Supplemental instructions)