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②國玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	計算機概論	L機概論 Ad			學年/學期 Academic Year/Semester			
課程名稱(英文) Course Name in English	Introduction	to Computer S	cience					
科目代碼 Course Code	DMSI10030	系級 Department & Year	rtment 學一 Course-Offering 數位行銷與		數位行銷與服務創新國際 學士班			
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)		3	3.0/3.0			
授課教師 Instructor	/張漢利							
先修課程 Prerequisite								
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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

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.

	系專業能力 Basic Learning Outcomes	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives					
A	具備以資訊技術協助企業運作與商業管理之知識與應用能力	•					
В	具備邏輯思考、問題分析與解決之能力	0					
С	具備溝通協調與團隊合作之能力	0					
D	具備創新思維之能力	0					
Е	具備國際視野及外語溝通之能力	0					
図二.	図二部田III.ustration · ▲ 宣座中間 Uimbly gorrelated ○中座中間 Medarately gorrelated						

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

授課進度表 Teaching Schedule & Content

週次Week	內容 Subject/Topics	備註Remarks
1	Orientation	
2	Computer Systems	

3	Number Systems 1						
4	Number Systems 2						
5	Data Operations and Storage 1						
6	Data Operations and Storage 2						
7	Computer Networks						
8	Algorithms						
9	期中考試週 Midterm Exam						
10	Data Structure						
11	Introduction to Database Management						
12	Introduction to Cybersecurity						
13	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	期末考試週 Final Exam						
	教 學 策 略 Teaching Strategies						
課堂講	授 Lecture 分組討論Group Discussion 參觀實習 Field Trip						
 其他Mi	scellaneous:						
	サ 日 Al か ム A T T 1' C. 1 f F 1'						
創新粉學(教學創新自評 Teaching Self-Evaluation Innovative Teaching)						
l	向學習(PBL) 團體合作學習(TBL) 解決導向學習(SBL)						
	室 Flipped Classroom						
社會責任(Social Responsibility) — 在地實踐Community Practice 產學合作 Industy-Academia Cooperation							
	Region Transdisciplinary Projects)						
l	學Transdisciplinary Teaching 跨院系教學Inter-collegiate Teaching						
	字 IT all surscript That y Teaching						
業師合	授 Courses Co-taught with Industry Practitioners						
其它 othe	r:						

	學期成績計算	草及多元	、評量方式	犬 Gradi	ng & As	sessmen	ts		
配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		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
平時成績 General Performance									
期中考成績 Midterm Exam									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments									
其他 Miscellaneous ()									
	Grading & A		量方式和 ents Sup			ruction	ıs		
Textbook & Ot	教科書與參考 her References					-		ks, etc.)	
	教材網址(含線 ids & Teacher'								

其他補充說明(Supplemental instructions)