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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				學年/學期 Academic Year/Semester		112/1
課程名稱(英文) Course Name in English	Introduction to Computer Science						
科目代碼 Course Code	ACIM10010	系級 Department 學一 & Year		開課單位 Course-Offering Department	會計與資訊管理國際學士 班		
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)		3.0/3.0			
授課教師 Instructor	/張漢利						
先修課程 Prerequisite							

### 課程描述 Course Description

This course provides a comprehensive overview of fundamental topics in computer science. Students will gain basic knowledge about computers, data manipulation, data 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.

#### 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.

	条專業能力 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	兼具會計資訊理論與實務操作及專業知識,具備跨領域解決問題能力	•
В	具有良好之會計資訊理論基礎與分析能力,具備相關領域升學或就業之知識與能力	•
С	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	•
D	具有會計資訊、風險控管、電腦審計與稅務整合能力	0
Е	具備超然獨立並嚴格遵守會計資訊專業倫理的道德勇氣	0
F	具備團隊合作、國際視野、創造性思考及良好的外語能力	•

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	Introduction	

3	Data storage					
4	Data manipulation					
5	National Day					
6	Operating systems					
7	Networking and Internet					
8	Algorithm					
9	期中考試週 Midterm Exam					
10	Programming Languages					
11	Software Engineering					
12	Data Abstraction					
13	Database Systems					
14	Computer Graphics					
15	Artificial Intelligence					
16	Theory of Computation					
17	期末考試週 Final Exam					
18	Alternative					
	教學策略 Teaching Strategies					
✓ 課堂講	授 Lecture					
   其他Mis	scellaneous:					
	th 組 Al かく か At Tanahina Calf Evaluation					
創新粉學(	教學創新自評 Teaching Self-Evaluation  Innovative Teaching)					
l	<u> </u>					
✓ 問題導向學習(PBL)						
社會責任(Social Responsibility)						
在地實踐Community Practice						
跨域合作(Transdisciplinary Projects)						
□ 跨界教學Transdisciplinary Teaching □ 跨院系教學Inter-collegiate Teaching						
Maria 12 courses to taught with mandery fractitioners						
其它 othe	r:					
, d one	<u> </u>					

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	多元評量方式 Assessments								
Items	配分比例 Percentage	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	10%								
期中考成績 Midterm Exam	25%	>							
期末考成績 Final Exam	30%	<b>~</b>							
作業成績 Homework and/or Assignments	25%		~						
其他 Miscellaneous (class participation)	10%								

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.)

- 1. Behrouz Forouzan. 2023. Foundations of Computer Science, 5e, Cengage
- 2. J. Glenn Brookshear and Dennis Brylow. 2019. Computer Science: An Overview, 13e, Pearson

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)