



## 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	行動裝置多媒體應用程式設計實作		學年/學期 Academic Year/Semester	113/1
課程名稱(英文) Course Name in English	Programming Multimedia APPs for Mobile Platforms			
科目代碼 Course Code	CSIEB0400	系級 Department & Year	學三	開課單位 Course-Offering Department
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/羅壽之			
先修課程 Prerequisite				
課程描述 Course Description				
Learn iOS app programming with Swift and SwiftUI, where you'll design and develop iOS apps using Xcode on an iMac.				
課程目標 Course Objectives				
1. 學習行動裝置應用程式設計 2. 知曉布局設計與應用程式框架 3. 由淺入深設計與發佈行動應用程式  1. To learn programming languages for mobile app development 2. To know the layout design and app architecture 3. To design and publish apps from scratch				
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	資訊專業終身學習能力Ability of lifetime learning in information profession			○
B	實驗驗證資訊科學能力Ability of validate experimental result validation in information science field			
C	資訊工具整合運用能力Ability of integrated applications of information technology			○
D	資訊系統應用設計開發能力Ability of information application system design and development			●
E	團隊合作溝通協調能力Ability of teamwork, communication, and coordination			●
F	資通訊科技問題解決能力Ability of problem solving regarding information and communication technology			●
G	瞭解資訊科技多元影響能力Ability to understand information technology's multiple influences			○
H	肩負資訊人社會責任能力Ability of bearing the social responsibilities being among information professionals			
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	(9/9) Course Introduction			

2	(9/16) Swift Programming Language	
3	(9/23) SwiftUI: Views and Modifiers	
4	(9/30) Compose Views	
5	(10/7) State, Binding, and MVVM	
6	(10/14) Input Interactions	
7	(10/21) Form/List and Navigation	
8	(10/28) Operations on List View	
9	(11/4) 期中考試週 Midterm Exam	
10	(11/11) Lazy layout and TabView	
11	(11/18) Gesture and Animation	
12	(11/25) Core Data / SwiftData	
13	(12/2) Work with Internet Data	
14	(12/9) Concurrency and Combine	
15	(12/16) APP Practices	
16	(12/23) Project Demo	
17	(12/30) Project Demo	
18	(1/6) (No class) Question Feedback	

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 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學(Innovative Teaching)

- 問題導向學習(PBL)
  團體合作學習(TBL)
  解決導向學習(SBL)  
 翻轉教室 Flipped Classroom
  磨課師 Moocs

社會責任(Social Responsibility)

- 在地實踐 Community Practice
  產學合作 Industry-Academia Cooperation

跨域合作(Transdisciplinary Projects)

- 跨界教學 Transdisciplinary Teaching
  跨院系教學 Inter-collegiate Teaching

- 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

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學期成績計算及多元評量方式 Grading & Assessments

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	10%		✓						
期中考成績 Midterm Exam	20%	✓	✓						
期末考成績 Final Exam									
作業成績 Homework and/or Assignments	50%	✓	✓						
其他 Miscellaneous (Project)	20%					✓			

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.)

Beginning iOS 17 Programming with Swift and SwiftUI, Simon Ng

快速精通iOS 17程式設計：從零開始活用Swift與SwiftUI開發, Simon Ng, 博碩文化股份有限公司

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.)

<https://elearn4.ndhu.edu.tw/moodle/>

其他補充說明 (Supplemental instructions)