國立東華大學

課　綱　Course Outline
資訊工程學系國際組

中文課程名稱 Course Name in Chinese	行動裝置多媒體應用程式設計實作				
英文課程名稱 Course Name in English	Programming Multimedia APPs for Mobile Platforms				
科目代碼 Course Code	CSIEB0400	班　別 Degree	學士班 Bachelor's		
修別 Type	學程 Program	學分數 Credit(s)	3.0	時　數 Hour(s)	3.0
先修課程 Prerequisite					

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

系教育目標
Dept.'s Education Objectives

1	具備學科知識，養成專業技能 Acquire academic knowledge, develop professional skills
2	學習創新思考，分析解決問題 Inspire innovative thinking, increase analytical problem solving ability
3	培養團隊精神，學習溝通合作 Promote teamwork spirit, encourage coordination and cooperation
4	提昇專業倫理，承擔社會責任 Sublimate professional ethics, engage social responsibility
5	涵育人文素養，開拓國際視野 Cultivate humanities, broaden global perspectives

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

課程大綱
Course Outline

這門課主要介紹iOS行動平台的應用程式設計，學生將學習Swift程式語言與Xcode開發工具。教導學生如何利用UIKit或是SwiftUI的方式設計應用界面，課程亦包含進階的內容，如使用多媒體、網路、資料庫與地圖等議題。

This course is about how to design mobile apps especially on iOS platforms. Students will learn the Swift programming language and the Xcode development tool. The layout design using either UIKit or SwiftUI will be introduced. Some advanced topics, for example, working with multimedia, networking, databased, and maps will be studied as well.

資源需求評估（師資專長之聘任、儀器設備的配合···等）
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

配置iMac與 iPad的電腦教室
Computer room with iMac and iPad

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

逐步利用實例引導設計過程
Coding examples with step-by-step instructions

其他
Miscellaneous