

明新科技大學 115學年第1學期教學大綱

Minghsin University of Science and Technology

【四技四年級選修】

科目名稱	Course Title
人工智慧	Artificial Intelligence
教學目標	Course Objective
本課程介紹人工智慧相關議題，包含人工智慧理論，人工智慧發展現況，與深度學習發展架構等最新技術。針對人工智慧技術最新發展技術，例如生成對抗網路(GAN)、遞迴式神經網路(RNN)、卷積神經網路進行探討(CNN)。	The course pays attention on the topics of Artificial Intelligence (AI), including the fundamental theory of AI, the state of art of AI, and the AI development architecture of deep learning, especially the up-to-date technologies, for example, Generative Adversarial Network(GAN), Recurrent Neural Networks (RNN), Convolutional Neural Networks (CNN)

科目名稱	Course Title
個人理財分析	Personal Financial Analysis
教學目標	Course Objective
<p>上完課你將能具備完整且健全的終身理財觀念，包括</p> <p>(1) 個人或家庭的收支、儲蓄及投資該如何進行(2) 了解最新的金融科技之發展與在理財上的應用(3) 了解貨幣的時間價值之真諦並激起立即投資的迫切性(4) 認識生命過程中人身保險與財產保險的重要性並立即檢視韓規劃您個人或家庭所需要的保險(5) 了解投資商品的標的與性質，規劃您合適的風險與報酬並立即進行投資(6) 了解退休後的經濟需求並檢視您將會有的退休金和可能的退休金缺口(7) 了解自己未來或是家中長輩可能會有的遺產規模，進而規劃合適的財產移轉以及節稅行動。</p>	<p>when you have finished this personal finance course, you will have the follwing gains: (1) understanding the family income and expenditure or savings for the planning of necessary investments. (2) understanding the recent financial techonoly and its use in your personal financing. (3) understanding the time value of money and inspiring you to make some immeidate investment planning. (4) understanding the contents of personal insurance and property insurance and reviewing your necessary insurance. (5) understanding the risk and return of various commodities and adapting some appropriate investment strategy for yourself. (6) understanding the economic requirment and possible economic gap of your retirement life. (7) finanlly, if you or your family will have much estate, you will be able to consider some property transferring action and</p>

tax saving strategy.

科目名稱	Course Title
電子商務建置實務	EC Web Site Practice
教學目標	Course Objective
本課程教導同學利用 JSP 網頁技術建置一個電子商務網站。課程完成之後同學應該要認識以下技術 1. 電子商務的型態 2. 電子商務的建置技術 3. 實作電子網站	Lectures will introduce the JSP web skill to build a simple EC web site. After this course, students will familiar with: 1. Types of EC. 2. Skills of build web sites. 3. Implement a web sites.

【四技三年級選修】

網路互連技術	Inter-networking
教學目標	Course Objective
接續大二「電腦網路」課程內容，針對進階單元做詳細介紹 1. IP 子網路切割、超網路 CIDR 實務 2. 基本路由協定介紹 3. IPv6 4. 802.1Q 虛擬區域網路 VLAN 5. 802.1D 橋接器擴張樹協定 STP 6. 網路位址轉譯 NAT 7. 虛擬私有網路 VPN 8. 互聯網路基礎 9. 可靠傳輸層協定	Based on 2nd Year Course - Computer Networks, introduce the advanced topics in details: 1. IP Subnetting, Supernet - CIDR 2. Basic Routing Protocols 3. IPv6 4. 802.1Q Virtual LAN 5. 802.1D Bridge STP 6. Firewall - NAT 7. Firewall - VPN 8. Internetworking Protocol 9. Reliable Transport Protocol

科目名稱	Course Title
資訊安全	Introduction to Information Security
教學目標	Course Objective
1. 以資訊安全的角度出發，建立資訊安全的基礎知識 2. 從資訊安全必備基礎開始學習，延伸至資訊安全於現今之應用 3. 介紹加密機制，系統授權與金鑰管理等	1. Establishment of information security basic knowledges and necessarily concepts 2. Learning about information security applications 3. Learning about encryption/decryption technologies, authentication and key management

科目名稱	Course Title
資料視覺化分析	Data Analysis and Visualization
教學目標	Course Objective
本課程主要探討大數據應用視覺化呈現於決策分析議題，使用視覺化決策分析軟體 Tableau，學習如何將大數據分析結果呈現與決策實例應用	The main objective of this course is to apply the visualizing tool on decision making issues. By using the visualization tool Tableau, big data is analyzed and represented as visualized charts for decision supporting.

科目名稱	Course Title
財務管理	Financial Management
教學目標	Course Objective
培養學生了解基本財務觀念並提供一般實務常識。	To help students to understand the basic concept of financial management and provide general knowledge in practice.

科目名稱	Course Title
JAVA 物件導向程式設計	JAVA Object-Oriented Programming
教學目標	Course Objective
1. 了解 Java 程式語言、物件導向程式設計 2. 能夠撰寫 Java application	1. understand the concept of Java language and Object-Oriented Programming. 2. develop students' s ability of writing Java program.

科目名稱	Course Title
資訊管理實習訓練	The Practice of Information Management
教學目標	Course Objective
針對資訊管理相關實習工作內容進行實務訓練	Practical training for internship tasks related to information management

【四技二年級選修】

科目名稱	Course Title
網頁樣式設計	Web Design Patterns
教學目標	Course Objective
使用 ASP.Net 與 C#製作網頁程式	Web Programming using ASP.Net and C#

科目名稱	Course Title
應用統計學	Applied Statistics
教學目標	Course Objective
本課程目標在於使同學瞭解基本的統計概念，進而培養同學們能將適當的統計分析工具廣泛應用於處理其所面對的實務問題上，以協助其做判斷、推論與決策。而這學期的課程內容包括：抽樣理論、統計估計、假設檢定與迴歸分析。	The objective of this course is to provide students with a basic understanding of statistical concepts, and the ability to properly apply statistical analysis as a tool to analyze economic and business problems. Topics for this semester include sampling, statistical estimation and hypothesis testing, and regression analysis.

科目名稱	Course Title
經濟分析	Economic Analysis
教學目標	Course Objective
本課程先介紹介紹獨佔，壟斷性競爭，寡佔等市場結構。之後將聚焦於基本總體經濟學，包括國民所得、財政、總合供需分析、通貨膨脹、國際貿易與金融等。同時以最近台灣的總體經濟實際資料與時事實例為輔，希望使學生建立基本總體經濟分析能力。	This course will first introduce three market structures including monopoly, monopolistic competition, and oligopoly in microeconomics. Then we will focus on macroeconomic parts in basic economics. We will discuss national income, public finance, AD/AS model, inflation, and international economics. In addition to theoretic introduction, some real examples in our economy will be discussed in order to enhance students' abilities in macroeconomic analysis.

科目名稱	Course Title
C#物件導向程式設計	Object-Oriented Programming
教學目標	Course Objective
瞭解物件導向程式設計 瞭解視窗程式設計方式 具開發應用程式能力	Understand Object Oriented Programming skills Understand GUI Programming skills Developing Applications

科目名稱	Course Title
電子商務	Electronic Commerce
教學目標	Course Objective
探討電子商務之意義與內涵及建置的策略。	Discuss the critical issues of electronic commerce and the implementation strategy.

【四技一年級選修】

科目名稱	Course Title
多益初級	TOEIC Bridge
教學目標	Course Objective
藉由練習多益普級測驗題目，讓學生熟悉職場與生活英語。	By practicing TOEIC Bridge test, students will become familiar with English for work and daily life.