

明新科技大學 111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
網頁資料庫	Web Database
教學目標	Course Objective
設計在網頁中能操作即時互動資料庫，如：網路購物、線上考試等。	On-Line and Real time For The Data Base In Web Page.

科目名稱	Course Title
巨量資料分析與應用	Big Data Analysis and Application
教學目標	Course Objective
介紹資料倉儲的基本概念, 並以 Excel 工具實際操作如何對大量資料進行商業智慧分析	Introduce the basic concept of data warehouse and how to analyze business intelligence from big data using Excel.

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
電子化企業經營與管理	Electronic Business Operation and Management
教學目標	Course Objective
學習電子化企業經營與管理之議題及相關知識。	Learning E-Business operation and management issues and related knowledge.

科目名稱	Course Title
網路安全實務(資工開課、資管選課)	Practice of Network Security
教學目標	Course Objective
1. 介紹網路安全觀念 2. 學習網路安全技術 3. 探討駭客攻擊手法 4. 建構安全防禦體系 5. 攻擊/防禦實務演練	1. Concepts of network security. 2. Learning of security technologies. 3. Research of hacking techniques. 4. Construct of defense frameworks. 5. Training on attack and defense

practices.

科目名稱	Course Title
電子商務安全(資管開課、資工選課)	Electronic Commerce Security
教學目標	Course Objective
安全是目前電子商務發展上最令消費者關切的議題。本課程希望讓學生以資訊管理的角度來了解電子商務的可能威脅與安全需求，並應用密碼學等相關工具來設計解決方案，以保護安全，促進電子商務的發展。	Security has become the most concerned issue by customers in electronic commerce. The course is designed to let students explore and research the security threats and requirements of online transactions. Applying cryptographic technologies to secure online transaction. Electronic commerce can thus be encouraged.

【四技三年級選修】

網路互連技術	Inter-networking
教學目標	Course Objective
援引思科網路學院(Cisco Networking Academy)官方教材－CCNAV7-ITN，接續前一階、大二的「電腦網路」課程，繼續本階段的授課內容。不趕進度，重視扎實，希望藉由微型投影片+微型作業的方式，以仿MOOCs的教學法，幫助學生對網路的世界開始產生興趣，甚至激發學生對於網路的熱情而想要更深入地自學。 重要備註：以下教學內容僅為預計進度，實際進度會依照當學期實際教學狀況彈性調整，會以「不趕進度，重視扎實」為最高準則。	* Based on the material of "CCNAV7-ITN" from Cisco Networking Academy * Intermediate level * MOOCs-like micro-slides + micro-assignments * Aim at igniting students' interest and even passion on studying this subject of networks * Note that the following planning of Topics arrangement will be flexibly adjusted according to actual teaching and learning circumstances during the semester. The top guideline is "slow and solid rather than rushing but shallow."

科目名稱	Course Title
資訊安全(資安)	Introduction to Information Security
教學目標	Course Objective
1. 以資訊安全的角度出發，建立資訊安全的基本知識 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
資料庫實務	Practice Database Management System
教學目標	Course Objective
1. 認識資料庫管理系統之運作架構及管理機制。 2. 學習 Transact-sql 與用戶端程式開發 3. 完成一個資料庫系統開發	1. Understanding the concept of database management system. 2. Obtaining the skills of Transact-sql and client programming. 3. Building a database management system.

科目名稱	Course Title
APP 程式設計實務	APP Programming Practice
教學目標	Course Objective
使學生了解手機程式設計語法 並能夠熟悉手機程式設計開發方法	Enable students to understand the app programming syntax and to be familiar with app programming skill

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
共通核心職能課程	General Core Curriculum of Competence
教學目標	Course Objective
強化學生必備的三大核心職能，包括：動機職能、行為職能與知識職能，以增加學生的職場競爭力；同時讓同學對資管畢業生的市場有更深入的了解，並增強同學履歷表的撰寫能力。	This course help students to be familiar with the three core competencies: driving competencies (DC), behavior competencies (BC), and knowledge competencies (KC). After this course, students can enhance their employment competitiveness. This course

also introduces the current employment market and enhances their skill of resume writing.

【四技二年級選修】

科目名稱	Course Title
網頁程式設計	Web Programming
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
金融科技	Financial Technology
教學目標	Course Objective
<p>本課程之設計旨在提供學生對金融科技之認識，介紹金融科技發展演進以及技術，分為三大架構講述金融科技的應用層面，(一)金融科技的內涵：金融科技的發展演進、雲端運算、大數據與新市場平台、人工智慧、區塊鏈、生物辨識。(二)金融科技的應用：支付科技、保險科技、存貸、募資、投資管理。(三)金融科技的議題：純網銀與開放銀行、監理科技、資訊安全與風險管理、金融機構的數位轉型。</p> <p>期望提供相關金融科技的應用知識；亦可作為準備證照測驗參佐。</p>	<p>This course is designed to provide students with an understanding of financial technology, introduce the development and evolution of financial technology and its technology, and divide it into three frameworks. (1) The connotation of financial technology: the development and evolution of financial technology, cloud computing, Big Data and New Market Platforms, Artificial Intelligence, Block chain, Biometrics. (2) Application of financial technology: payment technology, insurance technology, deposit and loan, fund raising, investment management. (3) Fintech topics: pure online banking and open banking, supervision technology, information security and risk management, and digital transformation of financial institutions.</p> <p>It is expected to provide relevant application knowledge of financial technology; it can also be used as a reference for preparing for the certification test.</p>

科目名稱	Course Title
會計學	Accounting
教學目標	Course Objective
<p>1. 使學生了解完整的會計學基本原理之介紹與演練。</p> <p>2. IFRS 財務報告重要觀念之介紹。</p> <p>3. 使同學從作業演練實做中體會會計觀念與記帳方法與加強編製財務報表與財務報表分析的能力。</p>	<p>1. Introduce the basic concepts of Accounting principles and practice from homeworks.</p> <p>2. Introduce the new concepts of IFRS.</p> <p>3. Teaching students to learn how to prepare and analyze the financial reports.</p>

科目名稱	Course Title
經濟分析	Economic Analysis
教學目標	Course Objective
<p>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。</p>	<p>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.</p>

科目名稱	Course Title
應用統計學	Applied Statistics
教學目標	Course Objective
<p>本課程的內容包括敘述統計及部份推論統計。學生在修畢本課程之後，能夠：1. 瞭解基本統計的概念與意義。2. 明瞭學術研究報告中之統計分析及其意義。3. 瞭解假設檢定程序。</p>	<p>The course includes both descriptive and inferential statistics. Each student shall be able to understand the concepts and meaning of statistics, and be able to apply them to the reading of research reports. 1. Learning Hypothesis Testing Procedures. 2. Learning Nonparametric tests of hypothesis. 3. Regression and Correlation (application)</p>