

明新科技大學 114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
雲端虛擬化系統管理實務	Virtualization System Administration Practices in Cloud
教學目標	Course Objective
1. 使學生了解雲端環境與雲端虛擬化技術 2. 訓練學生擁有雲端虛擬化系統管理能力	1. Cloud and Virtualization Technology Understanding 2. To have Cloud/Virtualization System Administration Skill

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
網路規劃與管理	Network Planning and Management
教學目標	Course Objective
<p>導入 Cisco Networking Academy (思科網路學院) CCNAv7: Introduction to Networks (網路概論) 及 CCNA R&S: Routing and Switching Essentials (路由及交換基礎) 官方課程模組作為本科目主要教材，帶領學生進入網路的世界，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。</p> <p>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。</p>	<p>* Based on Cisco Networking Academy – "CCNAv7: Introduction to Networks" & "CCNA R&S: Routing and Switching Essentials" Official Course Modules</p> <p>* Intermediate to Advanced level</p> <p>* MOOCs-like micro-slides + micro-assignments</p> <p>* Aim at igniting students' interest and even passion on studying this subject of networks</p> <p>* 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."</p>

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)

【四技三年級選修】

網路互連技術	Inter-networking
教學目標	Course Objective
<p>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。</p> <p>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。</p>	<p>* Based on the material of "CCNAv7-ITN" from Cisco Networking Academy</p> <p>* Intermediate level</p> <p>* MOOCs-like micro-slides + micro-assignments</p> <p>* Aim at igniting students' interest and even passion on studying this subject of networks</p> <p>* 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."</p>

科目名稱	Course Title
資訊安全(資安)	Introduction to Information Security
教學目標	Course Objective
<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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
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.

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
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
Python 程式設計	Python Programming Design
教學目標	Course Objective
本課程旨在幫助學生學會 Python 一些常用工具，含串列、字串、字典、集合，與 text 檔的處理，並接續之後人工智慧的學習。	This course aims to help students learn some common tools of Python, including processing of lists, strings, dictionaries, sets, and text files, and continue the study of artificial intelligence.

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
會計學	Accounting
教學目標	Course Objective

1. 使學生了解完整的會計學基本原理之介紹與演練。 2. IFRS 財務報告重要觀念之介紹。 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。	1. Introduce the basic concepts of Accounting principles and practice from homeworks. 2. Introduce the new concepts of IFRS. 3. Teaching students to learn how to prepare and analyze the financial reports.
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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>