明新科技大學　115學年第2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
深度學習	Deep Learning
教學目標	Course Objective
本課程主要探討深度學習理論與進階技術，包含深度學習網路的設計，以及實務上應用的教學。另外介紹深度學習最新應用現況。針對生成式人工智慧，與大型語言模型進行介紹，與微調練習	This course primarily explores deep learning theories and advanced technologies, including the design of deep learning networks and practical application teaching. Additionally, it introduces the latest applications of deep learning, including generative artificial intelligence, large language models, and fine-tuning practices.

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

【四技三年級選修】

科目名稱	Course Title
物聯網技術與應用	IoT Technology and Application
教學目標	Course Objective
1. 介紹物聯網的概念、趨勢與發展. 2. 藉由範例探討與實作，快速掌握物聯網的技術與應用	1. Introduces the Internet of Things(IoTs) concept, trend and development. 2. Use examples discussion and implementation, to familiar with the technology and application of the Internet of Things.

科目名稱	Course Title
網路規劃與管理	Network Planning and Management
教學目標	Course Objective
1.OSI 模型和 IP 子網路、DNS、DHCP、ARP 2.NAT、VPN 概念與應用 3.Cisco IOS 基本指令 4.VLAN 內容 802.1q 5.STP 內容802.1d 6.Static Routing RIP 7.Dynamic Routing OSPF 8.Tunnel 技術	1.OSI model and IP subnets, DNS, DHCP, ARP 2.NAT and VPN concepts and applications 3.Cisco IOS Basic Directives 4.VLAN content 802.1q 5.STP content 802.1d 6.Static Routing RIP 7.Dynamic Routing OSPF 8.Tunnel Technology

科目名稱	Course Title
資訊安全管理	Information Security Management
教學目標	Course Objective
認識資訊安全管理系統基本概念與實務	Understand the basic concepts and practices of information security management systems

科目名稱	Course Title
行銷管理	Marketing Management
教學目標	Course Objective
依次介紹基本行銷概念與行銷管理程序、分析行銷環境、發展行銷策略和行銷組合，以及探討國際行銷和社會責任。	The text maintains its emphases on delivering a clear, concise explanation of the basic principles of marketing and impact of globalization, diversity, ethics, and small businesses on marketing.

科目名稱	Course Title
機器學習	Machine Learning
教學目標	Course Objective
本課程介紹機器學習相關議題，包含機器學習理論, 機器學習演算法	The course pays attention on the topics of Machine Learning, including the fundamental theory and the algorithm of machine learning.

【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
學習利用 HTML5, CSS, jQuery, Bootstrap 製作網頁程式	Use HTML5, CSS, jQuery Bootstrap for Web programming

科目名稱	Course Title
多益初級	TOEIC Elementary
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 questions, students can become familiar with workplace and daily life English.

科目名稱	Course Title
行銷管理	Marketing Management
教學目標	Course Objective
依次介紹基本行銷概念與行銷管理程序、分析行銷環境、發展行銷策略和行銷組合，以及探討國際行銷和社會責任。	The text maintains its emphases on delivering a clear, concise explanation of the basic principles of marketing and impact of globalization, diversity, ethics, and small businesses on marketing.

科目名稱	Course Title
JAVA 程式設計	JAVA Programming
教學目標	Course Objective
使學生了解物件導向程式設計，並能夠利用物件導向程式語言開發程式	Enable students to underdstand Object-Oriented programming and use it to develop software programs.

科目名稱	Course Title
資料結構	Data structure
教學目標	Course Objective

資料結構其實就是「整理東西的學問」！整理衣櫃、排隊買飲料、規劃捷運路線都用得到，連程式跑得快不快，關鍵也在這裡。這門課不靠死背，用動畫看懂資料怎麼移動，用闖關遊戲、排序大賽玩出演算法，還有 AI 學習夥伴隨時陪你解惑。上課像玩遊戲，玩著玩著就學會了！ 【教學目標】 ① 用圖像看懂陣列、堆疊、佇列、樹與圖 ② 在遊戲中理解排序與搜尋的巧思 ③ 學會和 AI 聰明對話、驗證答案 ④ 組隊完成一個有創意的小作品	Data structures are really just “the art of organizing things”! Tidying your closet, lining up for bubble tea, planning an MRT route: they’re everywhere, and they’re even the secret behind how fast a program runs. No rote memorization here. Watch animations to see how data moves, play your way through algorithms with challenge games and sorting races, and ask your AI learning buddy whenever you’re stuck. Class feels like a game, and you’ll learn as you play! Learning Objectives ① Understand arrays, stacks, queues, trees, and graphs through visuals ② Discover the clever ideas behind sorting and searching through games ③ Learn to talk with AI smartly and check its answers ④ Team up to create a fun, original project

【四技一年級選修】

科目名稱	Course Title
網際網路實務	Internet Practice
教學目標	Course Objective
本課程介紹網際網路應用服務，包含雲端文件管理平台 HackMD、雲端程式碼代管平台 Github，建立學生網際網路實務操作能力。	This course intrdocues substantial online services to build up pratical operation abilities on internet , including cloud document management platform HackMD and cloud code management platform Github.

科目名稱	Course Title
簡報溝通技巧	Presentation and Communication Skills
教學目標	Course Objective
在數位與高度連結的時代中，有效的溝通需要同時具備科技應用能力與人際互動技巧。本課程旨在培養學生在面對面與科技媒介情境下的溝通軟實力。學生將學習如何運用數位工具強化簡報設計、資料視覺化與線上協作，同時提升口語表達與非語言溝通的能力。	In today’s digital and interconnected world, effective communication requires both technological fluency and strong interpersonal skills. This course equips

透過實作練習、小組討論與專題學習，學生將發展出同理心、批判思考與專業自信，能在多元環境中靈活運用科技與人際互動，達成有效且具影響力的溝通。	students with essential soft skills for communication in both face-to-face and technology-mediated contexts. Students will learn how to use digital tools to enhance presentations, visualize data, and collaborate across virtual platforms, while also strengthening verbal and nonverbal communication for in-person interactions. Through practical exercises, group discussions, and project-based learning, students will develop empathy, critical thinking, and professional confidence to communicate effectively in diverse situations. By the end of the course, students will be able to integrate digital competence with human connection to achieve impactful communication.