

明新科技大學 104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
網路規劃與管理	Network Planning and Management
教學目標	Course Objective
本課程教學目標即是針對網路規劃與管理做整體面的描述。本課程分成網路規劃與設計，網路管理及網路安全。藉由上述的說明，學生可以了解到整個網路系統的全貌。	This course examines the methods used to develop strategic and tactical network plans. We will include Network Planning and Design, Network Management, and Network Security. By these topics, students can understand the whole system in network.

科目名稱	Course Title
軟體專案管理	Software Project Management
教學目標	Course Objective
瞭解軟體危機 瞭解軟體的本質 瞭解軟體專案開發的過程 瞭解軟體專案管理的方法 瞭解品質與風險的管理	Introduction of software engineering The lifecycle of software project The methods of software project management

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
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
巨量交易分析與應用新增	

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
行動商務運用與安全(資安學程)	
教學目標	Course Objective
本課程將先介紹無線網路安全的基本概念, 接著針對 IEEE 802.11 無線區域網路及感測網路相關的安全機制做詳細的說明。	The course introduces the basic concept of wireless network security, and then elaborates the security schemes of IEEE 802.11 wireless local area networks (WLANs) and wireless sensor networks.

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
線上交易安全(資管開課、資工選課)	Online Transaction Security
教學目標	Course Objective
線上交易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線上交易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, 以保護線上交易的安全, 促進電子商務的發展。	Online transaction 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 transactions. Electronic commerce can thus be encouraged.

科目名稱	Course Title
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職涯規劃	Career Planning
教學目標	Course Objective
<ul style="list-style-type: none"> 1. 能了解職涯規劃的意義 2. 認識自我，擬定生涯規劃重點 3. 熟悉職場的生態 4. 建立職涯規劃目標 5. 準備求職文件資料與面試因應 	Enable students to <ul style="list-style-type: none"> 1. comprehend the basic meaning of career planning 2. understand oneself and plan your career 3. be familiar with job profiles and markets 4. set targets for different career stage 5. prepare necessary documents for job interviews

【四技三年級選修】

科目名稱	Course Title
生產管理	Operation Management
教學目標	Course Objective
生產作業系統選擇、設計、管制與供應鍊管理相關理論與實務介紹	Introducing the basic concepts of operation system selection, design and control, as well as supply chain management.

科目名稱	Course Title
資訊安全	Introduction to Information Security
教學目標	Course Objective
<ul 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 	<ul 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

網路互連技術	Inter-networking
教學目標	Course Objective
本課程之教學目標，即設定在引導學生聚焦其學習在此網路核心技術的相關協定、技術與架構等方面，並考量一個學期能透徹講解的份量，以 OSI 七層通訊協定架構的角度來講，切	For this reason and considering a thorough investigation on this subject over one semester, this curriculum will focus on network

入點將會是網路層的路由技術。並透過 Cisco Packet Tracer 網路模擬軟體及 Cisco Labs 實機操作練習，化理論為實際，培養同學互連技術之實機設定技能。	routing technologies. Specifically, we will focus on the routing protocols and routing techniques of the network layer. Meanwhile, students can learn how to use Cisco Packet Tracer and configure real Cisco routers and switches.
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科目名稱	Course Title
商用程式設計	Business Program Design
教學目標	Course Objective
1. 讓同學有能力建立資料庫網站，以利於中小企業之網路行銷 2. 教授同學資料庫之觀念與實務能力 3. 以架構一個實務網站為期末專題	site enabling them to perform network promoting by 1. Let students have ability to set up their web sites so that they can perform Internet marketing by himself. 2. Teach students about basic concepts of database as well as its practical issue in database. 3. Setting up a practical web site as final topic for exercise.

科目名稱	Course Title
資料庫實務	Practice Database Management System
教學目標	Course Objective
1. 認識 Oracle 之運作架構及 DBA 基本管理。 2. 建立 Oracle 資料庫物件，並實際運用。 3. 經由實作，熟悉各種 SQL 與 PL/SQL 語法，並能依需求設計，取得需要的查詢結果。 4. 能參加此科相關之證照考試。如系上推動之 ITe 考試	1. Let students realize Oracle Architecture, Client & Server's different function and DBA basic management. 2. Student can establish database objects and know how to implement. 3. students can write SQL and PL/SQL statements to get query results according to requirements. 4. Students are able to join the related license exam, e.g. ITe license test.

科目名稱	Course Title
立體動畫設計	Design of 3D Animation
教學目標	Course Objective
1. 瞭解3D 電腦繪圖的原理與實作 2. 瞭解3D 電腦動畫的原理與實作 3. 瞭解3D 電腦繪圖的應用與發展趨勢	1. To understand elemental 3D computer graphic and its implementation. 2. To understand elemental 3D computer

animation and its implementation.
3. To understand the application of 3D computer graphic and the trend of 3D computer graphic

科目名稱	Course Title
社群網絡分析實務	Practice of Social Listening
教學目標	Course Objective
結合社會科學對於人類社群行為的觀察，透過模型計算及解釋來預測人類社群會發生的現象。本課程將探討社群網路的相關理論，並介紹目前用來幫助決策與分析的推薦系統、專家搜尋系統、主題影響力分析系統等的智慧型系統，此外透過資訊科學方法蒐集社交資料來分析、以了解社群中各項議題的傳遞及趨勢。	

【四技二年級選修】

科目名稱	Course Title
物件導向程式設計	Object Oriented Programming
教學目標	Course Objective
<ol style="list-style-type: none"> 1. 瞭解物件導向程式設計的重要觀念。 2. 物件導向設計與程式開發的知識與技能。 3. 使用 C#.NET 撰寫物件導向程式的能力。 	<ol style="list-style-type: none"> 1. Understand major concepts of object-oriented programming. 2. Knowledge and skills in object-oriented design and program development 3. Have the ability to develop an object-oriented program using C#.NET.

科目名稱	Course Title
多媒體動畫設計	Multimedia Animation Design
教學目標	Course Objective
<ol style="list-style-type: none"> 1. 瞭解3D 電腦繪圖的原理與實作 2. 瞭解3D 電腦繪圖的應用與發展趨勢 	<ol style="list-style-type: none"> 1. To understand elemental 3D computer graphic and its implementation. 2. To understand the application of 3D computer graphic and the trend of 3D computer graphic