

明新科技大學 105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
行動通訊	Mobile Communications
教學目標	Course Objective
本課程將先介紹行動通訊的基本概念，接著將分別說明行動通訊網路中行動車載網路技術及寬頻行動存取網路技術。此外，本課程亦提供多個與行動通訊網路相關的實驗。	The course first introduces the basic concept of mobile communications, and then describes the major technologies in such fields, including vehicular ad hoc network (VANET) and mobile broadband wireless access (MBWA) system. In addition, numerous experiments in terms of mobile communications are included in the course as well.

科目名稱	Course Title
資訊安全管理(資安學程)	Information Security Management
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，延伸至系統與網路安全機制與資訊安全於現今之應用 3. 介紹系統與網路的安全檢測與加密機制，探討系統與資料庫安全、系統授權與金鑰、入侵檢測、電子商務交易安全等 	<ol style="list-style-type: none"> 1. Establishment of information security basic knowledges and necessarily concepts 2. Learning about information security protocol, tools and applications 3. Learning about system and network security policies, encryption/decryption technologies, DB security, authentication & key management and EC transaction security

科目名稱	Course Title
資料探勘	Data Mining
教學目標	Course Objective
學習資料探勘的原理與種類，以及應用於實務上的經驗	Understand the knowledge and techniques of data mining

科目名稱	Course Title
物聯網技術與應用	Internet of Things Technology and Application
教學目標	Course Objective

<p>本課程的主要目標係建立學生物聯網技術的知識與開發物聯網應用系統的能力，修習此課程的學生將會了解物聯網的歷史、概念、架構、核心技術與各類應用，並可透過多個物聯網實驗訓練培養設計與實際開發物聯網應用系統的能力。</p>	<p>This course aims to provide students the knowledge of technologies of the Internet of Things (IoT) and build the ability of developing IoT systems. The students taking this course will learn the history, concept, architecture, core technologies and various applications of IoT. In addition, numerous experiments in terms of IoT systems are also included in the course to develop students the ability of design and implementation of IoT applications.</p>
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【四技三年級選修】

科目名稱	Course Title
無線電腦網路	Wireless Computer Network
教學目標	Course Objective
<ol style="list-style-type: none"> 1. 介紹無線網路的基本概念 2. 介紹無線感測網路 3. ZigBee/IEEE 802.15.4介紹 4. 無線網路相關議題 	<ol style="list-style-type: none"> 1. Introduce the basic concepts of wireless networks 2. Introduce wireless sensor networks (WSNs) 3. Introduce ZigBee/IEEE 802.15.4 standard 4. Introduce related works about WSNs

科目名稱	Course Title
行銷管理	Marketing Management
教學目標	Course Objective
<p>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。</p>	<p>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.</p>

科目名稱	Course Title
商用資料庫	Commercial Database
教學目標	Course Objective
<ol style="list-style-type: none"> 1. 建立學生資料採礦應用概念。 2. 讓學生了解資料採礦之各種技術及模式 3. 學生能使用 SQL Server Analysis Services 工具進行資料採礦。 	<ol style="list-style-type: none"> 1. Let Students establish Data Mining application Concepts. 2. Students can realize different technology and models in data mining. 3. Students can use SQL Server Analysis Services to proceed data mining.

科目名稱	Course Title
物件導向系統分析	Object-Oriented System Analysis
教學目標	Course Objective
讓學生具備閱讀 UML 圖形的能力, 培養學生能利用 UML 從事資訊系統分析與設計的基本能力	Let students have the ability to read UML Diagrams and can use UML to analysis and design information system

電子商務安全(資安學程)	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。	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.

科目名稱	Course Title
電子商務建置實務	EC Web Site Practice
教學目標	Course Objective
1. 使學生瞭解電子商務建置基礎概念 2. 學習電子商務建置管理 3. 使用 Apache, MySQL, php, 及 osCommerce 建置電子商務平台 4. 建置 Mobile learning 學習平台	1. Introduction to e-commerce platform 2. Learning to manage e-commerce platform 3. Using Apache, MySQL, php, and osCommerce to implement e-commerce platform 4. Establishing an Mobile learning environment

科目名稱	Course Title
網路商店設計實務(產電學程)	E-Shop Design and Practices
教學目標	Course Objective
學習設計購物網站的重點以及評估優良購物網站。	Learning the key point of designing commerce website and evaluating outstanding website.

科目名稱	Course Title
網路安全(資安學程)	Network Security
教學目標	Course Objective
(1)基本觀念, 如資訊安全規範、資訊安全政策制定、資訊資產的分類評估與風險管理、建立資訊安全管理制度、資訊安全稽核機制、資訊安全委外 (2)安全保護, 如數位音樂安全機制、4G/3G/802.11 等無線網路之加密機制	(1)Basic concepts, including information security rules, policies, assessment classification, risk amnagement, management institutions, auditing mechanism, outsourcing.

(3)密碼應用，如 DES、3DES、AES、RSA、電子簽章、公開金鑰基礎建設 (4)安全技術，如虛擬私人網路與 IP 安全性 (5)駭客與電腦病毒的攻擊原理及防禦	(2)Security protections, including digital right management, 4G/3G/802.11 security technologies WEP/WPA/WPA2. (3)Cryptography applications, including DES, 3DES, AES, RSA, electronic signature, PKI. (4)Security technologies, including VPN, IP security. (5)Attack and defense principles of hacker & virus/worm/trojan.
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科目名稱	Course Title
企業資源規劃實務	Practice of Enterprise Resource Planning
教學目標	Course Objective
1. 培養 ERP 基本觀念 2. 了解影響 ERP 專案成功與否的重要因子 3. ERP 專案之衡量指標 4. ERP 軟體實作	1. Deliver the basics of ERP concepts 2. Understanding the critical factors of ERP implementation 3. Performance measurement for ERP project 4. ERP software practice

科目名稱	Course Title
網路規劃與管理	Network Planning and Management
教學目標	Course Objective
(1) 瞭解整體網路運作流程。 (2) 網路規劃 (3) 介紹相關網路管理標準。	(1)understand the operation flows of overall network systems. (2)understand how to plan a network (3)introduce to network management standards

【四技二年級選修】

科目名稱	Course Title
商程式設計	Database Application Language Programming
教學目標	Course Objective
1. 讓同學有能力建立資料庫網站 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	1. Let students have ability to set up their web sites. 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
進階 JAVA 程式設計	Advanced 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 understand Object-Oriented programming and use it to develop software programs

【四技一年級選修】

科目名稱	Course Title
創意影像處理	Creative Image Processing
教學目標	Course Objective
1. 瞭解影像處理的基本原理與實作 2. 瞭解影像處理常用的技巧 3. 熟悉影像處理軟體的操作	1. Understanding of the basic principles of image processing and implementation 2. Understanding of skills commonly used in image processing 3. Familiar with the operation of the image processing software

科目名稱	Course Title
英檢初級課程	Ready for GEPT Elementary Level
教學目標	Course Objective
有鑒於教育部對於教育國際化及學生英文能力提升的重視，特開此英文選修課程，以協助學生提升自我英語能力，並輔導學生通過英文檢定。 1. 勇於開口說英語 2. 擁有基礎文法知識 3. 可寫簡單的短文 4. 能以簡單的英文表達自己的意見 5. 能聽懂簡短之英文句子	Help Student improve thier English ability, and encourage them to take GEPT Elementary Level Test. Course Objects include: 1. Student will bot be afraid of speaking English. 2. Students have basic knowledge of English Grammar. 3. Studnets can write short essay. 4. Students can address themselves by using simple English. 5. Students can understand short sentences!

科目名稱	Course Title
網際網路實務	Internet Practice
教學目標	Course Objective
由相關觀念、技術的解說與實機操作中，建立同學自己動手建立網站的基本能力。 由瞭解網際網路伺服器環境開始進入網頁設計的領域，瞭解如何設計自己的網頁，如何進一步美化網頁，更	1. Realize and use the applications and principles of Internet and issues of virus & security 2. Constructing personal website

學會如何讓網際網路上的瀏覽者可以參觀自己所建構的網站。

具有網頁設計能力在職場上絕對具有一定的優勢，甚至可以藉由這樣的技術為自己找到生涯發展的方向。

本課程的幾項具體目標：

瞭解網際網路環境與網站伺服器架構。

學會撰寫網頁文件，並於瀏覽器展現、瀏覽。

學會使用網頁設計開發軟體。

學會進階的網頁美化技巧。

3. Learning from basic concepts of website design to advanced skills and the Blog