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②國玄東華大學

課 網 Course Outline

資訊工程學系國際組

中文課程名稱 Course Name in Chinese		下一代網際網路					
英文課程名稱 Course Name in English		Next Generation Internets					
科目代碼 Course Code		CSIEM0120	班 別 Degree		碩士班 Master's		
修別 Type		選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite							
課程目標 Course Objectives							
介紹下一代網際網路的發展及其通訊協定							
系教育目標 Dept.'s Education Objectives							
1	探究學科知識,善用專業技能 Explore academic knowledge, utilize professional skills.						
2	訓練評析思考,創新解決問題。 Exercise analytical thinking, enhance creative problem solving skills.						
3	學習團隊分工,強化溝通表達。 Participate in teamwork, strengthen communication skills.						
系專業能力 Basic Learning Outcomes					力相關性 Correlati between (Objective Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	統合資工知識技術之能力。 Ability to integrate knowledge and technologies of computer science and information engineering.					0	
В	設計技術理論驗證實驗之能力。 Ability to design and conduct science experiments and to validate hypotheses.					•	
С	資訊軟硬體設計開發之能力。 Ability to design and develop computer software and hardware.					•	
D	D 圏隊專案開發之能力。 Ability to design and develop team projects.						

批判性思考與創新研發之能力

Ability of analytical thinking, creative research planning, and innovative development.

圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱

Course Outline

Chapter 1. Introduction

Chapter 2 The Architecture of Networks

Chapter 3. Network Technologies

Chapter 4. Internet Protocol Version 6

Chapter 5. Using ICMP to Coordinate Systems

Chapter 6. Datagram Delivery via UDP

Chapter 7. Reliable Delivery with TCP

Chapter 8. Routing with OSPF

Chapter 9. RIPs Simpler Approach to Routing

Chapter 10. Routing between Autonomous Systems Using IDRP

Chapter 11. RTP for Real Time Applications

Chapter 12. Reserving Resources for Real Time Traffic with RSVP

Chapter 13. Domain Name Service

Chapter 14. Configuring Hosts through DHCP

資源需求評估(師資專長之聘任、儀器設備的配合・・・等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

- 1. 課堂講授討論
- 2. 分組撰寫Internet Application程式

其他

Miscellaneous