**通訊網路專論課程內容說明**

1. 網路系統安全架構 (Security Architectures) (Week 1-2)
   1. 網路協定安全 (Week 1)
   2. 作業系統安全 (Week 2)
2. 新興網路安全課題 (Modern Network Security Issues) (Week 3-4)
   1. 移動設備安全 (Week 3)
   2. 隱私信息保護 (Week 4)
3. 可信與安全的關係及差異 (The relation and difference between being secured and trusted) (Week 5-6)
   1. 虛假信息時代 (Week 5)
   2. 信息關聯分析 (Week 6)
4. 區塊鏈平臺及技術 (Blockchain platform and technologies) (Week 7-8)
   1. 分布式賬本 (Week 7)
   2. 網路容錯架構 (Week 8)
5. 期中考/期中報告 (Mid-term Exam/Presentation)
6. 雲端運算與區塊鏈的整合 (Integration of Cloud Computing and Blockchain) (Week 9)
   1. 虛機和容器網路設計 (Week 9)
   2. 雲端安全與容錯架構 (Week 9)
7. 區塊鏈，權證及商業模式 (Blockchain, token, and biz models) (Week 10-11)
   1. 權證與權證經濟 (Week 10)
   2. 可信生態和商業設計 (Week 11)
8. 智能合約延伸的商業策略 (Smart contract and biz strategy) (Week 12-13)
   1. 具備軟體約束的合約 (Week 12)
   2. 支持平臺生態的發展策略 (Week 13)
9. 應用案例 (Case study) (Week 14-17)
   1. 同質和非同質憑證應用與暢想 (Week 14)
   2. NFT案例及創新延伸案例設計 (Week 15)
   3. 虛幣案例及價值經濟延伸設計 (Week 16)
   4. 基于安全與可信的元宇宙探討 (Week 17)
10. 期末考/期末報告 (Final Exam/Presentation) (Week 18)