

Chinese Name of Subject	English Name of Subject	Compulsory or Elective	Credit	Hour	Course Level	Note
Specialized Courses (Compulsory 4 credits, Elective 28 credits, Totaling 32 credits)						
1. Common Compulsory						
引導研究(一)	Directed Individual Study (1)	Compulsory	1	1	First Year Graduate First Semester	
引導研究(二)	Directed Individual Study (2)	Compulsory	1	1	First Year Graduate Second Semester	
專題討論(一)	Seminar (1)	Compulsory	1	1	Second Year Graduate First Semester	
專題討論(二)	Seminar (2)	Compulsory	1	1	Second Year Graduate Second Semester	
2. Elective Courses						
人工智慧	Artificial Intelligence	Elective	3	3	First Year Graduate	
生物資訊	Bioinformatics	Elective	3	3	First Year Graduate	
高速電腦網路	High Speed Computer Networks	Elective	3	3	First Year Graduate	
高等計算機結構	Advanced Computer Architecture	Elective	3	3	First Year Graduate	
高等機率與統計	Advanced Probability and Statistics	Elective	3	3	First Year Graduate	
影像處理	Image Processing	Elective	3	3	First Year Graduate	
嵌入式系統軟體設計	Software Design of Embedded System	Elective	3	3	First Year Graduate	
普及計算	Pervasive computing	Elective	3	3	First Year Graduate	
無線通信與行動網路	Wireless Communication and Mobile Network	Elective	3	3	First Year Graduate	
視訊與音訊壓縮	Video Audio and Compression	Elective	3	3	First Year Graduate	
新世代網際網路	New Generation of Internet Technology	Elective	3	3	First Year Graduate	

電腦醫學系統 設計導論	Introduction to computer medical system design	Elective	3	3	First Year Graduate	
網路資訊安全	Network and Computer Security	Elective	3	3	First Year Graduate	
網路學習科技	Network Learning Technology	Elective	3	3	First Year Graduate	
數位訊號處理	Digital Signal Processing	Elective	3	3	First Year Graduate	
數位學習心理 學	Psychology of E-Learning	Elective	3	3	First Year Graduate	
資訊法律專題 研究	Special Topic Research on Info- Communicatio n Law	Elective	3	3	First Year Graduate	
最佳化演算法	Optimisation Algorithms	Elective	3	3	First Year Graduate	
資訊科技專利	Patent for Information Technology	Elective	3	3	First Year Graduate	
分散式系統	Distributed Systems	Elective	3	3	First Year Graduate	
多媒體技術及 應用	Multimedia Technologies and Applications	Elective	3	3	First Year Graduate	
行動隨意感測 網路	Mobile ad hoc sensor networks	Elective	3	3	First Year Graduate	
行銷策略資訊 系統	Marketing force strategic information system	Elective	3	3	First Year Graduate	
科技輔具設計 導論	Introduction to assistive technology	Elective	3	3	First Year Graduate	
個人通訊服務 網路	Personal Communicatio n Service Networks	Elective	3	3	First Year Graduate	
訊號處理積體 電路設計	Signal Processing and Integrated Circuits Design	Elective	3	3	First Year Graduate	
高等作業系統	Advanced Operating Systems	Elective	3	3	First Year Graduate	
高等資料庫	Advanced Database	Elective	3	3	First Year Graduate	
嵌入式系統	Embedded	Elective	3	3	First Year Graduate	

	Systems					
虛擬實境與模擬設計	Virtual Reality and Simulating Design	Elective	3	3	First Year Graduate	
網站資訊系統設計	Design of Web Information System	Elective	3	3	First Year Graduate	
網站資訊系統設計與經營模式	Multimedia web system design	Elective	3	3	First Year Graduate	
語意網路與資訊擷取	Semantic Web and Information Retrieval	Elective	3	3	First Year Graduate	
深度學習	Deep Learning	Elective	3	3	First Year Graduate	
網路模擬與效能分析	Simulation and Performance Analysis of Networks	Elective	3	3	First Year Graduate	
機器人視覺	Robot Vision	Elective	3	3	First Year Graduate	
人機介面	User Interface	Elective	3	3	Second Year Graduate	
高等演算法	Advanced Computer Algorithms	Elective	3	3	Second Year Graduate	
互動式多媒體藝術專題	Special Topics in Interactive Multimedia Arts	Elective	3	3	Second Year Graduate	
平行計算專題研究	Special Topic Research on Parallel Computing	Elective	3	3	Second Year Graduate	
生醫訊號處理專題研究	Special Topic Research on Biomedical Processing	Elective	3	3	Second Year Graduate	
多媒體互動人機介面專題	Multimedia Interactive Man-machine Interface Seminar	Elective	3	3	Second Year Graduate	
多媒體串流技術專題研究	Special Topic Research on Multimedia Streaming	Elective	3	3	Second Year Graduate	
多媒體專題研究	Special Topic Research on Multimedia	Elective	3	3	Second Year Graduate	
多媒體網路	Multimedia Networks	Elective	3	3	Second Year Graduate	
計算理論	Computation Theory	Elective	3	3	Second Year Graduate	
計算機網路專題研究	Special Topic Research on Multimedia	Elective	3	3	Second Year Graduate	
軟體工程專題	Special Topic Research on	Elective	3	3	Second Year Graduate	

研究	Software Engineering					
嵌入式系統專題研究	Special Topic Research on Embedded System	Elective	3	3	Second Year Graduate	
資料庫專題研究	Special Topic Research on Digital Control Chip	Elective	3	3	Second Year Graduate	
資料探勘	Data Mining	Elective	3	3	Second Year Graduate	
資訊擷取技術	Information Retrieval	Elective	3	3	Second Year Graduate	
遊戲程式設計	Game Programming	Elective	3	3	Second Year Graduate	
電腦電話整合系統	Computer Telephony Integration Systems	Elective	3	3	Second Year Graduate	
圖形辨認	Pattern Recognition	Elective	3	3	Second Year Graduate	
數位控制晶片專題研究	Special Topic Research on Digital Control Chip	Elective	3	3	Second Year Graduate	
大數據專題研究	Special Topic Research on Big Data	Elective	3	3	Second Year Graduate	
平行與分散式運算專題研究	Special Topic Research on Parallel and Distributed Computing	Elective	3	3	Second Year Graduate	
多媒體資料庫	Multimedia Databases	Elective	3	3	Second Year Graduate	
系統分析與專案管理	System Analysis and Project Management	Elective	3	3	Second Year Graduate	
物件導向分析設計	Object-Oriented Analysis and Design	Elective	3	3	Second Year Graduate	
密碼學	Cryptography	Elective	3	3	Second Year Graduate	
教育科技專題研究	Special Topic Research on Educational Technology	Elective	3	3	Second Year Graduate	
軟體衡量專題研究	Special Topic Research on Software Metrics	Elective	3	3	Second Year Graduate	
無線行動網路專題研究	Special Topic Research on Wireless Mobile Network	Elective	3	3	Second Year Graduate	
資料探勘專題研究	Special Topic Research on Data Mining	Elective	3	3	Second Year Graduate	

電子書製作	Design on E-Book	Elective	3	3	Second Year Graduate	
網路規劃與管理	Network Planning and Management	Elective	3	3	Second Year Graduate	
網際網路應用專題研究	Special Topic Research on Internet Application	Elective	3	3	Second Year Graduate	
遠距教學系統設計專題	Special Topics in the Development of Distance Learning Systems	Elective	3	3	Second Year Graduate	
遠距醫療系統專題研究	Special Topic Research on Telemedicine System	Elective	3	3	Second Year Graduate	
數位訊號處理專題研究	Special Topic Research on Digital Signal Processing	Elective	3	3	Second Year Graduate	
數位藝術專題研究	Special Topic Research on Digita	Elective	3	3	Second Year Graduate	
影像處理與機器學習	Image Processing and Machine L	Elective	3	3	Second Year Graduate	
高科技創業與研發管理	Technology Entrepreneurship and R&D Management	Elective	3	3	Second Year Graduate	
生成式人工智慧	Generative Artificial Intelligence	Elective	3	3	Second Year Graduate	
人工智慧物聯網技術	Artificial Intelligence of Things (AIoTs) Technology	Elective	3	3	Second Year Graduate	New Updated
3. Other Courses						
所內、所際及校際課程	Intra-departmental, Inter-departmental, and Inter-school Courses	Elective	6	6	Cross-departmental and Inter-school Elective Courses are subject to the relevant regulations of our institution. The total credits for cross-day-night, inter-departmental, and inter-school course selection shall not exceed 6 credits	