

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	Course Offering for All Grades with Flexible Scheduling
高等計算機結構	Advanced Computer Architecture	Elective	3	3	First Year Graduate	
影像處理	Image Processing	Elective	3	3	First Year Graduate	
視訊與音訊壓縮	Video Audio and Compression	Elective	3	3	First Year Graduate	
網路學習科技	Network Learning Technology	Elective	3	3	First Year Graduate	
高等軟體工程	Advanced Software Engineering	Elective	3	3	First Year Graduate	
嵌入式系統軟體設計	Software Design of Embedded Systems	Elective	3	3	First Year Graduate	
無線通信與多媒體網路	Wireless Communication and Multimedia Network	Elective	3	3	First Year Graduate	
生物資訊	Bioinformatics	Elective	3	3	First Year Graduate	
知識管理專題研究	Special Topic Research on Knowledge Management	Elective	3	3	First Year Graduate	
智慧型系統專題研究	Special Topic Research on Intelligence System	Elective	3	3	First Year Graduate	
數位訊號處理	Digital Signal Processing	Elective	3	3	First Year Graduate	
資訊安全技術	Technologies and Applications	Elective	3	3	First Year Graduate	

與應用	of Information Security				
最佳化演算法	Optimization Algorithm	Elective	3	3	First Year Graduate
資訊科技專利	Patent for Information Technology	Elective	3	3	First Year Graduate
資訊法律專題研究	Special Topic Research on Info-Communication Law	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 Systems	Elective	3	3	First Year Graduate
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
資訊管理	Management Information System	Elective	3	3	First Year Graduate
創意學專題研究	Special Topic Research on Creativity	Elective	3	3	First Year Graduate
科技輔具設計專題研究	Special Topic Research on Assistive Technology	Elective	3	3	First Year Graduate
行動通訊服務網路	Mobile Communication Service Networks	Elective	3	3	First Year Graduate
行銷策略資訊系統	Strategic marketing information system	Elective	3	3	First Year Graduate
雲端運算	Cloud Computing	Elective	3	3	First Year Graduate
深度學習	Deep Learning	Elective	3	3	First Year Graduate
機器人視覺	Robot Vision	Elective	3	3	First Year Graduate
語意網路與資訊擷取	Semantic Web and Information Retrieval	Elective	3	3	Second Year Graduate
資料探勘	Data Mining	Elective	3	3	Second Year Graduate
多媒體網路	Multimedia Networks	Elective	3	3	Second Year Graduate
遊戲程式設計	Game Programming	Elective	3	3	Second Year Graduate

人機介面	User Interface	Elective	3	3	Second Year Graduate
多媒體專題研究	Special Topic Research on Multimedia	Elective	3	3	Second Year Graduate
計算機網路專題研究	Special Topic Research on Computer Networks	Elective	3	3	Second Year Graduate
控制晶片專題研究	Special Topic Research on Control Chip	Elective	3	3	Second Year Graduate
資料庫專題研究	Special Topic Research on Databases	Elective	3	3	Second Year Graduate
嵌入式系統專題研究	Special Topic Research on Embedded System	Elective	3	3	Second Year Graduate
軟體工程專題研究	Special Topic Research on Software Engineering	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
無線感測網路專題研究	Special Topic Research on Wireless Sensor Networks	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
圖形辨認	Pattern Recognition	Elective	3	3	Second Year Graduate
電子書製作	Design of E-Book	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
網路規劃與管理	Network Planning and Management	Elective	3	3	Second Year Graduate
多媒體資料庫	Multimedia Databases	Elective	3	3	Second Year Graduate
教育科技與行銷專題研究	Special Topic Research on Educational Technology and School Marketing	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	
行動隨意網路 專題研究	Special Topic Research on Mobile ad hoc Networks	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	
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	
網際網路應用 專題研究	Special Topic Research on Internet Applications	Elective	3	3	Second Year Graduate	
數位藝術專題 研究	Special Topic Research on Digital Media and Arts	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	
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	New Updated
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	
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