

Course List

for Students enrolled in Fall 2023

科目名稱	Cre dits	Year	Semester	Required or Elective	Course Name	Course Code
必修科目 Required						
文獻研討(一)	1	1	Fall	Required	LITERATURE SURVEY(1)	IECS6916
資訊專題研討(一)	1	1	Fall	Required	SEMINAR(1)	IECS6081
學術研究倫理教育	0	1	Fall	Required	RESEARCH ETHICS EDUCATION ONLINE PROGRAM	GEID6022
文獻研討(二)	1	1	Spring	Required	LITERATURE SURVEY(2)	IECS6917
資訊專題研討(二)	1	1	Spring	Required	SEMINAR(2)	IECS6082
資訊專題研討(三)	1	2	Fall	Required	SEMINAR(3)	IECS6083
資訊專題研討(四)	1	2	Spring	Required	SEMINAR(4)	IECS6084
碩士論文	0	2		Required	MASTER THESIS	IECS7990
選修科目 Elective						
系統思維與統計應用	3	1	Fall	Elective	SYSTEM THINKING AND APPLIED STATISTICS	IEE5016
高等作業系統	3	1	Fall	Elective	ADVANCED OPERATING SYSTEMS	IECS6021
高等計算機結構	3	1	Fall	Elective	ADVANCED COMPUTER ARCHITECTURE	IECS6023
高等密碼學	3	1	Fall	Elective	ADVANCED CRYPTOGRAPHY	IECS6076
高等軟體工程	3	1	Fall	Elective	ADVANCED SOFTWARE ENGINEERING	IECS6052
資料探勘	3	1	Fall	Elective	DATA MINING	IECS6050
圖論	3	1	Fall	Elective	GRAPH THEORY	IECS6007
網際網路規約	3	1	Fall	Elective	INTERNET PROTOCOLS	IECS7033
系統思維與機率應用	3	1	Spring	Elective	SYSTEM THINKING AND APPLIED PROBABILITY	IEE5015
高等通訊與網路	3	1	Spring	Elective	ADVANCED COMMUNICATION AND NETWORKING	IECS6043

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高等資訊安全	3	1	Spring	Elective	ADVANCED INFORMATION SECURITY	IECS6026
敏捷開發	3	1	Spring	Elective	AGILE DEVELOPMENT	IECS6056
軟體元件設計	3	1	Spring	Elective	SOFTWARE COMPONENT DESIGN	IECS6057
嵌入式系統設計與實務	3	1	Spring	Elective	EMBEDDED SYSTEM DESIGN AND PRACTICE	IEE6101
無線通訊與網路	3	1	Spring	Elective	WIRELESS COMMUNICATION AND NETWORKS	IECS6034
雲端計算	3	1	Spring	Elective	CLOUD COMPUTING	IECS6077
資訊保密與安全	3	1	Spring	Elective	CRYPTOGRAPHY AND DATA SECURITY	IECS6078
演算法設計與分析	3	1	Spring	Elective	DESIGN AND ANALYSIS OF ALGORITHMS	IECS6005
影像處理	3	1	Spring	Elective	IMAGE PROCESSING	IECS6071
生物資訊學	3	2	Fall	Elective	BIOINFORMATICS	IECS6046
多核心系統與軟體	3	2	Fall	Elective	MULTI-CORE SYSTEMS AND SOFTWARE	IECS7021
多媒體技術與應用	3	2	Fall	Elective	MULTIMEDIA TECHNIQUES AND APPLICATIONS	IECS7061
專題產業實習(一)	3	2	Fall	Elective	PROJECT- COOPERATIVE INDUSTRY INTERNSHIP(1)	IECS7951
專題產業實習(二)	3	2	Fall	Elective	PROJECT- COOPERATIVE INDUSTRY INTERNSHIP(2)	IECS7952

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專題產業實習(三)	3	2	Fall	Elective	PROJECT- COOPERATIVE INDUSTRY INTERNSHIP(3)	IECS7953
智慧物聯網	3	2	Fall	Elective	SMART INTERNET OF THINGS	IECS6057
最佳化方法及應用	3	2	Fall	Elective	OPTIMIZATION APPROACHES AND ITS APPLICATIONS	IECS7036
硬體安全	3	2	Fall	Elective	HARDWARE SECURITY	IECS7019
進階影像處理	3	2	Fall	Elective	ADVANCED IMAGE PROCESSING	IECS6072
具體數學	3	2	Spring	Elective	CONCRETE MATHEMATICS	IECS6008
知識管理與創新	3	2	Spring	Elective	KNOWLEDGE MANAGEMENT AND INNOVATION	IECS6069
社群媒體安全	3	2	Spring	Elective	SOCIAL MEDIA SECURITY	IEE6110
計算生物學	3	2	Spring	Elective	COMPUTATIONAL BIOLOGY	IECS6044
校外專業實習(一)	3	2	Spring	Elective	OFF-CAMPUS INTERNSHIP(1)	IECS7941
校外專業實習(二)	3	2	Spring	Elective	OFF-CAMPUS INTERNSHIP(2)	IECS7942
校外專業實習(三)	3	2	Spring	Elective	OFF-CAMPUS INTERNSHIP (3)	IECS7943
無線隨意與感測網路 技術與應用	3	2	Spring	Elective	WIRELESS AD HOC AND SENSOR NETWORKS	IECS7034
語音識別與自然語言 處理	3	2	Spring	Elective	SPEECH AND LANGUAGE PROCESSING	IECS6004