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資訊工程系 碩士班 112 學年度入學課程結構規劃表

2023 Curricula for the Master's Program in Department of Computer Science and Information Engineering

AS IN WIER			一年級 I st Academic Year					二年級 2 nd Academic Year						
			第一學期			第二學期			第一學期			第二學期		
課程類別		. प ा	Semester 1			Semester 2			Semester 1			Semester 2		
	本本主 实现 Course Cate		課程名稱 Course Name	學分數	時數 Hours	課程名稱 Course Name	學分數	時數 Hours	課程名稱 Course Name	學分數	時數 Hours	課程名稱 Course Name	學分數	時數 Hours
學院共同 (由學院) College Co Course	開課) ommon	選修 Elective	competition and challenge	:/1/1 .碳能	、網	改學分/1/1Basic design and ar 路與排隊理論/3/3Data Netw 技術導論微學分/1/1Introduc ergy/1/1	orks	and	Queueing Theory/3/3、微》	皮工	程身	與應用/3/3Microwave Engi	inee	ring
學院跨領: (由學院) College Interd	開課) lisciplinary	選修 Elective	區塊鏈技術與應用/3/3B	lock	chai	n Technology and Application	n/3/3	় ১ ট্র	區塊鏈智能合約實務/3/3B	lock	Ch.	ain Smart Contract Practice	e/3/	3
	必修	應修學分數 10 學分	專題研討(一)	2	2	專題研討(二)	2	2	專題研討(三)	2	2	專題研討(四) Seminar (4)	2	2
	Required	Credits Needed10	Seminar (1)			Seminar (2)			Seminar (3)	Ĺ		論文 Thesis	6	6

SIE BARTMENT WE WINGING W			生物計算/3/3 Biomedical Algorithms/3/3 高等計算機網路/3/3 Advanced Computer Network/3/3 高等演算法/3/3 Advanced Algorithms Analysis/3/3 數位影像處理/3/3 Digital Image Processing/3/3 資料探勘/3/3	電腦視覺/3/3 Computer Vision/3/3 圖型辨識/3/3 Pattern Recognition/3/3 高等人工智慧/3/3 Advanced Artificial Intelligence/3/3 網路安全/3/3 Network Security/3/3	圖形理論/3/3 Graphic Theory/3/3 類神經網路/3/3 Neural Networks/3/3 計算機圖學/3/3 Computer Graphics/3/3 生物資訊學/3/3 Introduction To Computational Biology/3/3	機器學習/3/3 Machine Learning/3/3 深度學習/3/3 Deep Learning/3/3 強化學習/3/3 Reinforcement Learning/3/2 整合學習/3/3 Ensemble Learning/3/3 機率學習/3/3
系 專業課 程 Departmental Professional Courses	選修 Elective	應修學分數 24 學分 Credits needed24	Data Mining/3/3 高等物件導向程式設計/3/3 Advanced Object-Oriented Programming/3/3 網路協定工程/3/3 Network Protocol Engineering/3/3 高等 Linux 系統整合應用/3/3 Advanced Integrated Application of Linux System 3/3 基因演算法/3/3 Genetic Algorithm/3/3	密碼學/3/3 Cryptography 巨量資料分析/3/3 Big Data Analysis/3/3 智慧計算/3/3 Intelligent Computation/3/3 高等資料庫/3/3 Advanced Database/3/3 雲端計算與服務/3/3 Cloud Computing and Services/3/3	自然語言處理/3/3 Natural Language Processing /3/3 區塊鏈技術與應用/3/3 Blockchain Technology and Application/3/3 量子電腦程式設計/3/3 Programming Design of Quantum Computers/3/3 量子電腦進階程式設計/3/3 Advanced Quantum Programming of Quantum Computers/3/3 網路科學與社會計算/3/3 Network Science and Social	Probabilistic Learning/3/3 資料科學/3/3/3/3 Data Science 資料科學專題/3/3 Seminar on Data Science/3

備註:

- 一、畢業總學分數為38學分。
- 二、必修 14 學分,選修 24 學分。
- 三、學生修讀所屬學院之「學院共同課程」應認列為本系專業課程學分;修讀所屬學院之「學院跨領域課程」或其他學院開課之課程,則認列為外系課程學分。

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系所訂定條件(學程、檢定、證照、承認外系學分及其他):

- (一) 其他系所所開設之選修課程至多可承認 6 學分。
- (二) 若有計畫型之課程要開設,需經系務會議通過。
- (三) 其他相關規定依本系碩士班研究生指導與修讀辦法辦理。
- (四) 外籍生經其指導教授同意,修讀非本系開設之英語授課課程(含線上課程),可認列為畢業學分且不受承認外系學分數上限之限制。

Notes:

- 1. Minimum credit required to graduate: ___38_.
- 2. Required coursess: 14 credits; elective courses: 24 credits.
- 3. Credits earned by students from the common courses offered by their respective colleges shall be accepted as their affiliated department's professional courses. However, credits earned from interdisciplinary courses offered either by their college or by other colleges will be accepted as credits earned from departments outside their own.
- 4. Departmental requirements (Ex: programs, certifications, licenses, recognition of external department credits, and other requirements):
 - (1) Elective courses offered by other departments may be credited up to a maximum of 6 credits.
 - (2) If a planned course is to be offered, it must be approved by the department meeting.
 - (3) Other relevant regulations shall be handled in accordance with the department's regulations for graduate student supervision and study.
 - (4) Foreign students, with the approval of their academic advisor, may count English-taught courses (including online courses) not offered by their department towards graduation credits, and such credits will not be subject to the limit on credits from other departments.