

Asia University

2023 Academic year Program for International Master Students

(112 學年度碩士班國際生全英語課程規劃表)

學程名稱(中文)：資訊工程學系碩士班(國際碩士學生)

學程名稱(英文)：Master program in Department of Computer Science & Information Engineering
(International Master Students)

畢業總學分：27 學分

112.04.26 校課程委員會通過

Credits for Graduation: 27

Approved by the University Curriculum Committee on 26/04/2023

Category	Course Title(中,英文)	Year of the program	Semester	Credits	Remarks
(3 credits) University Required Credits	Master Thesis 碩士論文	2 nd	1 st	1	
	Master Thesis 碩士論文	2 nd	2 nd	2	
(3 credits) Program Required Credits	Seminar (I) 專題講座(一)	1 st	1 st	1	
	Seminar (II) 專題講座(二)	1 st	2 nd	1	
	Seminar (III) 專題講座(三)	2 nd	1 st	1	
(21 credits) Program of Elective Credits	Data Mining 資料探勘	1 st or 2 nd	1 st or 2 nd	3	
	Machine Learning 機器學習	1 st or 2 nd	1 st or 2 nd	3	
	Deep Learning 深度學習	1 st or 2 nd	1 st or 2 nd	3	
	Computer Vision 電腦視覺	1 st or 2 nd	1 st or 2 nd	3	
	Artificial Intelligence 人工智慧	1 st or 2 nd	1 st or 2 nd	3	
	Big Data Technologies and Applications 巨量資料技術與應用	1 st or 2 nd	1 st or 2 nd	3	
	Cloud Computing Practices 雲端運算實務	1 st or 2 nd	1 st or 2 nd	3	
	Artificial Intelligence & Internet of Things (AIoT) 智慧物聯網 (AIoT)	1 st or 2 nd	1 st or 2 nd	3	
	Blockchain Technology and Its Application 區塊鏈技術與應用	1 st or 2 nd	1 st or 2 nd	3	
	Project Management 專案管理	1 st or 2 nd	1 st or 2 nd	3	
	Software Engineering 軟體工程	1 st or 2 nd	1 st or 2 nd	3	
	Knowledge Management 智識管理	1 st or 2 nd	1 st or 2 nd	3	
	Image Processing 影像處理	1 st or 2 nd	1 st or 2 nd	3	
	Pattern Recognition 圖形識別	1 st or 2 nd	1 st or 2 nd	3	
Information Systems Management 資訊科技管理	1 st or 2 nd	1 st or 2 nd	3		
Information Security 資訊安全	1 st or 2 nd	1 st or 2 nd	3		

Category	Course Title(中,英文)	Year of the program	Semester	Credits	Remarks
Semiconductor Program Elective Credits	Algorithms 演算法	1 st or 2 nd	1 st or 2 nd	3	
	Computer Networks 計算機網路	1 st or 2 nd	1 st or 2 nd	3	
	Grey System and Its Applications 灰色系統應用	1 st or 2 nd	1 st or 2 nd	3	
	Database Systems 資料庫系統	1 st or 2 nd	1 st or 2 nd	3	
	Operating Systems 作業系統	1 st or 2 nd	1 st or 2 nd	3	
	Cryptography and Its Applications 密碼學應用	1 st or 2 nd	1 st or 2 nd	3	
	Design of SCADA System 監控系統設計	1 st or 2 nd	1 st or 2 nd	3	
	Quantum Cryptography 量子密碼學	1 st or 2 nd	1 st or 2 nd	3	
	Intelligent Applications for Home and Living Technology 智慧生活應用整合	1 st or 2 nd	1 st or 2 nd	3	
	Security and Privacy Technologies Based on Blockchain Networks 基於區塊鏈網路的安全與隱私技術	1 st or 2 nd	1 st or 2 nd	3	
	Text Mining 文件探勘	1 st or 2 nd	1 st or 2 nd	3	
	Data Science 資料科學	1 st or 2 nd	1 st or 2 nd	3	
	Big Data Management 大數據資料處理	1 st or 2 nd	1 st or 2 nd	3	
	Microelectronics 電子電路	1 st	1 st or 2 nd	3	
	Integrated Circuits 積體電路	1 st	1 st or 2 nd	3	
	Semiconductor Device Physics 半導體物理及元件	1 st	1 st or 2 nd	3	
	Semiconductor Process Engineering 半導體製程	1 st	1 st or 2 nd	3	
	Compound semiconductor 化合物半導體	1 st	1 st or 2 nd	3	
	Material Engineering 材料分析	1 st	1 st or 2 nd	3	
	Semiconductor Manufacturing Technology 積體電路製造實務	2 nd	1 st or 2 nd	3	
	VLSI Design and Process Technology 超大型積體電路設計實務	2 nd	1 st or 2 nd	3	
	Power device 功率元件	1 st	1 st or 2 nd	3	
	Analog Circuits 類比電路	1 st	1 st or 2 nd	3	
Packaging 半導體封裝	1 st	1 st or 2 nd	3		
Semiconductor Failure Analysis 半導體故障分析	1 st	1 st or 2 nd	3		

Note(註) :

- Taiwanese students, who want to join English-taught program, shall meet one of the language requirements, indicated below: TOEIC-650 / TOEFL-500(paper-based)/ GEPT-Intermediate Level/Equivalent test score of other English proficiency tests. (本地生欲修習全英文課程，英文成績須達多益 650 分、托福紙筆測驗 500 分、全民

英檢中級或其他相同等級之英檢。)

2. Graduation requirement: 27 credits (including 6 credits of Required Courses and 21 credits of Elective Courses)(總畢業學分數為 27 學分(含校、系定必修 6 學分與系定選修 21 學分)。