

國立虎尾科技大學 資訊工程系 碩士班課程科目表(102 學年入學適用)  
Curriculum Table (Since 2013 Academic Year)  
Graduate Class  
Department of Computer Science and Information Engineering  
National Formosa University

102 年 3 月 26 日 101 學年第 3 次課程會議通過  
102 年 4 月 23 日 101 學年第 6 次系務會議通過  
102 年 6 月 11 日 101 學年第 2 次課程會議通過  
102 年 6 月 18 日 101 學年第 4 次教務會議通過  
102 年 10 月 15 日 102 學年第 4 次系務會議修正通過  
103 年 2 月 18 日 102 學年第 1 次系務會議修正通過

Academic Year	First Year					
Semester	First			Second		
Required Courses	Subject	Credit	Hours	Subject	Credit	Hours
	專題研討(一) Project Discussion (1)	0	2	專題研討(二) Project Discussion(2)	0	2
	科技論文寫作 Scientific Writing	3	3	書報討論(二) Seminar(2)	0	2
	書報討論(一) Seminar(1)	0	2	華語教學(二) The Teaching of Chinese(2)	0	4
	華語教學(一) The Teaching of Chinese(1)	0	4			
<b>Total</b>		3	11		0	8
Elective Courses	無線射頻辨識系統與應用 RFID System and Applications	3	3	新一代 web 技術 New Generation Web Technology	3	3
	圖形識別 Pattern Recognition	3	3	軟體協同設計與應用 Software and Hardware Co-design and Applications	3	3
	電腦視覺處理 Computer Vision Processing	3	3	數位視訊處理 Digital Video Processing	3	3
	感測網路 Sensor Network	3	3	資料隱藏 Data Hiding	3	3
	感測網路實驗 Sensor Network Experiments	3	3	高等演算法 Advanced Algorithms	3	3
	生物計算 Computational Biology	3	3	智慧型機器人系統應用專題 Intelligent Robot System Application Project	3	3
	可編程系統單晶片設計實務 SOPC Design	3	3	雲端作業系統 Cloud Operating Systems	3	3
	行動商務安全 M-Commerce Security	3	3	行動計算與應用 Mobile Computing and Applications	3	3
				數值方法 Numerical Methods	3	3
				生物資訊學 Bioinformatics	3	3
			嵌入式車載通訊電子網路	3	3	

				系統設計 Embedded Telematics Electronic Network System Designing				
				數論 Number Theory	3	3		
				無線網路協定 Wireless Network Protocols	3	3		
<b>Academic Year</b>	<b>Second Year</b>							
<b>Semester</b>	<b>First</b>			<b>Second</b>				
<b>Required Courses</b>	<b>Subject</b>	<b>Credit</b>	<b>Hours</b>	<b>Subject</b>	<b>Credit</b>	<b>Hours</b>		
	碩士論文(一) Master's Thesis(1)	3	0	碩士論文(二) Master's Thesis(2)	3	0		
	華語教學(三) The Teaching of Chinese(3)	0	4	華語教學(四) The Teaching of Chinese(4)	0	4		
	(I)	專題研討(三) Project Discussion(3)	0	2	(III)	專題研討(四) Project Discussion(4)	0	2
		書報討論(三) Seminar(3)	0	2		書報討論(四) Seminar(4)	0	2
	(II)	產業研發實習(一) Industrial Research and Development Lab(1)	0	2	(IV)	產業研發實習(三) Industrial Research and Development Lab(3)	0	2
		產業研發實習(二) Industrial Research and Development Lab(2)	0	2		產業研發實習(四) Industrial Research and Development Lab(4)	0	2
<b>Total</b>		3	8		3	8		
<b>Elective Courses</b>	多媒體通訊 Multimedia Communications	3	3	影像擷取裝置設計與應用 Image Capture Device Design and Application	3	3		
	高等隱藏學 Advanced Steganography	3	3	高等人工智慧 Advanced Artificial Intelligence	3	3		
	資料壓縮 Data Compression	3	3	網路協定工程 Networks Protocol Engineering	3	3		
	多代理人系統 Multiagent System	3	3	平行演算法 Parallel Algorithm	3	3		
	演化式基因演算法 Evolution Algorithm	3	3	密碼學 Cryptography	3	3		
	機器學習 Machine Learning	3	3	智慧型最佳化演算法 Intelligent Algorithm of Optimization	3	3		
	高等數位系統設計 Advanced Digital Design	3	3					
	資通訊安全專論 Information & Communication Security	3	3					

備註：

1. 本系碩士班研究生最低畢業總學分數為 30 學分，其中必修包含論文 6 學分、科技論文寫作 3 學分及四學期之專題研討、書報討論，專業選修至少須修滿 21 學分，其中 6 學分可選修外系課程，唯須經指導教授同意。
  2. 華語教學為外國學生必修課程，可抵免書報討論課程。外國學生開放選修外系全英文授課課程，唯須經指導教授同意，不受上述 6 學分限制。
  3. ( I )組課程和 ( II )組課程須擇一組修習；( III )組課程和 ( IV )組課程須擇一組修習。
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1. Please note that for students in the CSIE Department the minimum requirement for completing postgraduate study is four-consecutive semesters of study and 30 credits. At least 6 of the required credits must be for the successful completion of a thesis, 3 credits for scientific research writing, and at least 21 credits from elective courses. Up to 6 elective course credits can be taken from other departments, however students wanting to enrol in courses outside of the CSIE Department must first secure permission from their supervisor.
  2. The Teaching of Chinese courses are mandatory for all the international students who enroll in the CSIE department. The students can waive the Seminars courses only if they successfully complete the required Chinese courses. Unless securing permission from their supervisors first; otherwise, they cannot take English-instructed courses from other departments and they will be subject to the 6 elective course credits limits mentioned above.
  3. ( I ) courses and ( II ) courses are alternative ; ( III ) courses and ( IV ) courses are alternative.