

崑山科技大學電機工程系大學部四年制國際產學專班課程科目表

課程名稱 (講授時數-實習時數-學分數)

112.11.01系課程委員會通過

112.11.15院課程委員會通過

113.01.24校課程委員會通過

112學年度入學適用

1st Academic Year		2nd Academic Year		3rd Academic Year		4th Academic Year	
1 st Semester	2 nd Semester	1 st Semester	2 nd Semester	1 st Semester	2 nd Semester	1 st Semester	2 nd Semester
General Compulsory Courses 共同必修(Total: 26 Cs)							
實用生活華語(一)入門基礎級 Situational Chinese(I) - Breakthrough Level (6-0-3) 職場溝通華語(一) Practical Workplace Chinese(I) (4-0-2) 台灣歷史與文化 History and Culture of Taiwan (3-0-3) 職場倫理 Workplace Ethics (2-0-2)	實用生活華語(二)基礎級 Situational Chinese(II) - Waystage Level (3-0-3) 職場溝通華語(二) Chinese for Workplace (II) (2-0-2) 華語口語與表達 Pronunciation of Chinese and Oral Expression (2-0-2) 華語文聽力與閱讀 Chinese Listening and Reading (3-0-3)	實用生活華語(三)進階級 Situational Chinese(III) - Threshold Level (3-0-3)	專業華語 Chinese for Professional field (3-0-3)				
15-0-10	10-0-10	3-0-3	3-0-3	0-0-0	0-0-0	0-0-0	0-0-0
Professional Compulsory Courses 專業必修(Total: 49Cs)							
普通物理與實驗 Physics and Experiment (1-2-3) 基本電學及實習 Basic Circuits and Experiment (2-2-4)	電子學及實習 (一) Electronics and Laboratory (1) (2-2-4) 電路學與實習 Circuit and the Experiment (2-2-4)	電子學及實習 (二) Electronics and Laboratory (II) (2-2-4) 職場實習一 Field Practice (I) (0-24-6)	材料科學導論 Fundamentals of Materials Science and Engineering (3-0-3) 職場實習二 Field Practice (II) (0-24-6)	工程材料學 Engineering Materials (3-0-3) 半導體製程及實習 Semiconductor or Technology and Practice (1-2-3) 職場實習三 Field Practice (III) (0-24-6)	半導體元件 Semiconductor or Device (3-0-3)		
3-4-7	4-4-8	2-26-10	3-24-9	4-26-12	3-0-3	0-0-0	0-0-0

Selective Courses 選修(Total: 53Cs)							
	工業安全及衛生 Industrial Safety and Health (3-0-3)	基礎量測及實習 The Fundamental of Measurement and Experiments (1-1-2)	電力電子學實習 Experiments of Power Electronics (1-2-3)	自動化概論 Introduction to Automation (3-0-3)	專題實作(一) Project (I) (2-2-4) 職場實習四 Field Practice (IV) (0-24-6) 真空技術 Vacuum Technology (2-0-2)	專題實作(二) Project (II) (2-2-4) 電機機械 Electric and Machinery (2-0-2) 職場實習五 Field Practice (V) (0-24-6) 可程式控制器應用及實習 Practice of Programmable Logic Controller and Internship (1-2-3)	感測元件與應用 Sensors and Applications (3-0-3) 表面工程技術 Surface Engineering Technology (3-0-3) 職場實習六 Field Practice (VI) (0-24-6) 職涯輔導 Carrer Counseling (3-0-3)
0-0-0	3-0-3	1-1-2	1-2-3	3-0-3	4-26-12	5-28-15	9-24-15
18-4-17	17-4-21	6-27-15	7-26-15	7-26-15	7-26-15	5-28-15	9-24-15
Minimum for Total Credits: 128 Cs							

Note 備註:

- (Le-Lb-Cs), Le: Lecture hours, Lb: Lab hours, Cs: Credits。
課程名稱 (講授時數-實習時數-學分數)
- The university reserves the right to make changes to the courses offered without prior notice.
本校保留課程調整之權利。
- This class is a special class, so the courses offered are exactly 128 credits. If students wish to take elective courses in other classes of the university, they can apply for other courses after they are approved by the class committee. The total credits of the courses that students can take can exceed 128 credits.
本班屬於專班性質，因此所開設的課程剛好為128 學分，如有學生希望能修習本校其他班級之選修課程時，得提出申請，並經專班委員會通過後，即可選修其他課程，不會僅限128 學分。
- If during the internship period, the student cannot continue the internship in the company and cannot smoothly transfer to another company, or when the semester is not suitable for student internship, it will be replaced by the following courses.
若學生實習離退而無法銜接他間公司，或當學期不適合實習時，得以下列課程替代之。

編號(No.)	課程名稱 (course)	學分數(credits)
1	數位電子乙級技術士學科	(3-0-3)
2	數位電子乙級技術士術科	(1-2-3)
3	電力電子乙級技術士學科	(3-0-3)
4	電力電子乙級技術士術科	(1-2-3)
5	真空半導體設備人機介面及實習	(1-2-3)
6	綠能科技與實作	(2-1-3)
7	綠色能源與產業商機	(3-0-3)
8	機電整合實務	(3-0-3)
9	可程式控制器進階控制實習	(0-3-3)
10	電腦硬體裝修檢定學術科	(3-0-3)

編號(No.)	課程名稱 (course)	學分數(credits)
11	影像視覺檢測	(3-0-3)
12	電機機械實習	(0-2-2)
13	VB 監控實習	(3-0-3)
14	真空技術士認證輔導	(3-0-3)
15	電力系統模擬	(3-0-3)
16	LED 照明專論	(3-0-3)
17	電力品質分析與模擬	(3-0-3)