崑山科技大學進修部電機工程系二技課程科目表

Kun Shan University Department of Electrical Engineering 2-Year College Curriculum

(Continuing Education Division)

課程名稱(講授時數—實習時數—學分數)

Course Name (Lecture Hours – Practice Hours – Credits)

113.04.18 系課程委員會通過
113.04.26 院課程委員會通過
113.05.13 校課程委員會通過
113 學年度入學適用
Apply to the freshmen enrolled in 113

第一學年 First Academic Year		第二學年 Second Academic Year	
第一學期	第二學期	第一學期	第二學期
共同必修科目(合計 10 學分) University-wide Required Courses (10 Credits)			
核心通識科目(合計 4 學分) Common Core Courses (4 Credits)			
實用英文 Practical English (2-0-2)			
生涯發展與職業倫理 Career Development and Work Ethics (2-0-2)			
分類通識科目(合計 6 學分) Liberal Education Courses (6 Credits)			
	分類通識 Liberal Education (2-0-2) 分類通識 Liberal Education (2-0-2)	分類通識 Liberal Education (2-0-2)	
4-0-4	4-0-4	2-0-2	
專業必修科目（0 學分）Required subjects for majors (0 Credits)			

專業選修科目，依每學期實際情況開課 (選修學分至少 62 學分,本系至少 48 學分)

Major elective subjects are taught according to the actual conditions of each semester (62 credits for electives, at least 48 credits for this department)

應用工程數學 Engineering Mathematics (3-0-3)	電力電子學 Power Electronics (3-0-3)	電力品質分析 Electric Power Quality Analysis (3-0-3)	實務專題 Practice Project (0-2-2)	數位電子乙級技術士學科 Digital electronic grade B technique master theor (3-0-3)
網路分析 Network Analysis (3-0-3)	電力電子學實習 Experiments of Power Electronics (0-3-3)	數位信號處理 Digital Signal Processing (3-0-3)	積體電路製程 Process of Integrate Circuit (3-0-3)	數位電子乙級技術士術科 Digital Electronics grade B technique master technique (3-0-3)
可程式控制器應用 Application of Programmable Logic Controller (3-0-3)	控制系統 control systems (3-0-3)	電機機械專論 Advanced of Electric Machinery (3-0-3)	真空技術 Vacuum technology (3-0-3)	電力電子乙級技術士學科 Academic Study for the Test of Level B Technician for Power Electronics (3-0-3)
線性電子學 Linear Electronics (3-0-3)	控制系統實習 ontrol systems Experiment (0-3-3)	電機機械實務 Practice of Electric Machinery (3-0-3)	薄膜製程 Thin Film Process (3-0-3)	電力電子乙級技術士術科 Skill subjects of Level B Technician for Power Electronics
材料科學導論 Fundamentals of Materials Science and Engineering (3-0-3)	微處理機應用 Basis of Microprocessor (3-0-3)	電磁概論 General Electromagnetics (3-0-3)	電力電子設計 Design of Power Electronics (3-0-3)	
程式設計 Program Design (3-0-3)	半導體元件 Semiconductor devices (3-0-3)	配電工程 Power Distribution System (3-0-3)	電力電子應用 Applications of Power Electronics (3-0-3)	
科技英文	電力系統 Power System (3-0-3)		數位影像處理 Digital Image Processing (3-0-3)	

第一學年 First Academic Year		第二學年 Second Academic Year		
第一學期	第二學期	第一學期	第二學期	
Technology English (3-0-3) 能源應用 Energy applications (3-0-3) 奈米科技導論 Introduction to Nanotechnology (3-0-3) 資料結構 Data Structures (3-0-3) 顯示器概論 Introduction of Displays (3-0-3) 光電半導體物理 Semiconductor Physics (3-0-3) 量測與轉換 The Fundamental of Measurement and Conversion (3-0-3) 工廠管理 Factory Managment (3-0-3)	可程式 VB 圖形監控 Visual VB Monitoring of Programmable Logic Controller (3-0-3) 微電腦介面應用 Microcomputer Interface Applications (3-0-3) 機電整合及實習 Mechatronics and Practice (0-3-3) Matlab 工程軟體應用 Application of Matlab Engineering (3-0-3) LabView 工程軟體應用 Computer control software applications (3-0-3) LED 照明技術 Micro LED (3-0-3) 機電整合基礎實習 Fundamentals of Mechatronics with Practice (0-3-3)	電力系統分析 Power System Analysis (3-0-3) 計算機網路 Computer Net (3-0-3) 可程式 LabVIEW 圖形監控 LabVIEW Visual Monitoring of Programming Logic Con(3-0-3) 感測元件與應用 Sensor Theory and Application (3-0-3) 電動機控制與實務 Motor Control and Practice (3-0-3) 光電元件 Opto-Electronic Devices (3-0-3) 數位電路實習 Digital Circuit Lab. (0-3-3) 半導體製程 Semiconductor Processing (3-0-3) 高亮度 LED 技術 High brightness LED technology (3-0-3) 機電整合實務 Mechatronics Practice (3-0-3)	電力系統模擬 Power System Simulation (3-0-3) 切換式電源供應器 Switching power supply (3-0-3) 太陽能電池 Solar Cell (3-0-3) 電力控制與能源管理 Power Control and Energy Management (3-0-3) 光學設計與模擬 Optical Design and Simulation (3-0-3) 工業配線實務 Industrial Wiring Practice (3-0-3) Micro LED 照明技術 LED illumination technology (3-0-3) 光電半導體製程 Optoelectronic Semiconductor process (3-0-3)	(3-0-3) 機電整合乙級技術士學科 Mechatronics grade B technique master theoretical course (3-0-3) 機電整合乙級技術士術科 Mechatronics grade B technique master technique (3-0-3)
最低畢業總學分為 72 學分 The minimum total number of credits for graduation is 72 credits				