國立勤益科技大學 109 學年度日間部二年制電子工程系 學分計畫表 National Chin-Yi University of Technology

Curriculum Planning of 2020 Two-Year Degree in Department of Electronic Engineering

Courses

科目

109.5.11 課程委員會及 109.5.21 院課程委員會審議通過 109.5.28.校課程委員會議及 109.6.11.教務會議審議通過

學分

下學期 Second Semester

正課

上學期 First Semester

正課

實習

學分

	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Credits	Lecture	Internship	Credits	Lecture	Internship
	共同必修科目(10 學分) General Required Cou	urses (10 cr	edits hours)				
1 2/2	第一學年First Year					1	1
中國文學	Chinese Literature	2	2	0			
憲法與民主	Constitution and Democracy	2	2	0			ļ
歷史與文化	History and Culture	2	2	0	_		
藝術與哲學	Art and Philosophy				2	2	0
實用英文	Practical English				2	2	0
體育	Physical Education	0	2	0	0	2	0
	第二學年Second Year(無必修課程No Genera	al Required	Courses)				
	all all to the sale of (2.2 Std 2.) To 1. (TO 1.1.)	7 (22	1'. 1	`			
	專業必修科目(22 學分) Department Required (Jourses (22 o	credits hours	s)			
エフチル ()	第一學年First Year					1	1
電子電路(一)	Electronic Circuits (I)	3	3	0	2	2	
電子電路(二)	Electronic Circuits (II)				3	3	0
實務專題(一)	Practical Project (I)	2	2		2	0	6
工程數學	Engineering Mathematics	3	3	0	3	3	0
DSP 實務	Digital Signal Processing	3	3	0	3	3	0
also at the section	第二學年Second Year			_		1	
實務專題(二)	Practical Project (II)	2	0	6			
	共同選修科目 General Electives						
	第一學年 First Year(無排定共同選修課程 No Ge	eneral Elect	ives Course	es)			
	第二學年 Second Year						
體育選修	Physical Elective Course	1	2	0	1	2	0
	專業選修科目 Department Elective	es Courses					
	第一學年 First Year						
	積體電路與系統應用 Integrated Circuit and	System Apr	lication				
類比積體電路設計	Introduction to Analog IC Design	3	3	0			
積體電路製程	Integrated Circuits Manufacturing Process	3	3	0			
嵌入式系統應用	Embedded System Application	3	3	0			
電磁相容原理	Introduction to Electromagnetic Compatibility	3	3	0			
電路板製造與產業概論	Introduction to Circuit Board Manufacturing and Industry	3	3	0			
人工智慧晶片導論	Introduction to AI on Chip	3	3	0			
Cell-Base 晶片設計	Cell-Base IC Physical Design		-		3	3	0
低功率積體電路設計	Low Power IC Design				3	3	0
光電轉換導論	Optical-Electrical Transfer				3	3	0
高速 PCB 設計	High-Speed Printed Circuit Board Design				3	3	0
智慧電子科技	Intelligent Electronic Technology				3	3	0
	網路多媒體暨遊戲機 Network Multimedia	and Game N	I achine				
網路概論	Introduction to Network	3	3	0			
視窗程式設計	Windows Programming	3	3	0			
數位信號處理	Digital Signal Processing	3	3	0			
工程光學應用	Applied Engineering Optics	3	3	0			
遊戲企劃	Game Design	3	3	0			
3D 物件建模技術	3D Modeling Software Practice	3	3	0			
3D 動畫技術	3D Animation Software Practice				3	3	0
人工智慧	Artificial Intelligence				3	3	0
遊戲製作	Game Development				3	3	0
深度學習應用	Applied Deep Learning				3	3	0
光學元件	Optical Elements and Design				3	3	0
嵌入式微處理器系統與實習	Embedded Microprocessor System and Practice				2	1	3
	智慧機器人 Intelligent Robo	otics					
智慧型機器人系統應用專題	Application Project of Intelligent Robotic System	3	3	0			
PLC 應用實作	Programmable Logic Controller Practice	2	1	3			
機器人控制	Robot Control	3	3	0			
嵌入式微處理器系統與實習	Embedded Microprocessor System and Practice	2	1	3			
機器視覺	Machine Vision	3	3	0			
模糊控制	Fuzzy Control				3	3	0
工業機器人原理與應用	Principle and Application of Industrial Robots				3	3	0
智慧感測與監控實務	Smart Sensor and Supervisory Control Practice				2	1	3
						_	0
電力電子學	Power Electronics				3	3	U

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通信基頻晶片電路	Communication Baseband Integrated Circuit	3	3	0			
射頻積體電路導論	Introduction to RFIC Design	3	3	0			
電力電子積體電路設計	Power Electronics IC Design	3	3	0			
太陽能系統與應用	Solar Cell System and Applications	3	3	0			
嵌入式軟體設計實務	Embedded Software Design	3	3	0			
電磁相容之標準與測試	Electromagnetic Compatibility of Standards and Test	3	3	0			
IC 測試技術	IC Test Technologies				3	3	0
IC 封裝技術	IC Packaging Technologies				3	3	0
半導體元件模擬	Semiconductor Device Simulation				3	3	0
運算放大器設計實務	Practical Design of Operational Ampliofilers				3	3	0
電磁相容實務	Engineering EMC				3	3	0
	網路多媒體暨遊戲機 Network Multimedia	and Game N	Machine				
資料庫系統應用	Applied Database System	3	3	0			
作業系統	Operating System	3	3	0			
計算機結構	Computer Architecture	3	3	0			
遊戲物理導論	Introduction to Game Physics	3	3	0			
演算法	Algorithms				3	3	0
虚擬實境	Introduction to Virtual Reality				3	3	0
擴增實境導論	Introduction to Augmented Reality				3	1	2
物聯網概論	Introduction to Internet of Things				3	3	0
	智慧機器人 Intelligent Robo	tics					
定位導航概論	Introduction to Positioning and Navigation	3	3	0			
智慧機電實務	Smart Mechatronics Practice	2	1	3			
人機介面	Design of Human-Machine Interface	3	3	0			
電機控制原理與應用	Electrical Control Principle and Application				3	3	0
可攜式電源設計	Portable Power Supply Design				3	3	0
人工智慧	Artificial Intelligence				3	3	0
機器人程式設計	Robotic Programming				3	3	0
	共同專業選修科目 General Department E	Electives Co	ureae			1	
	第一學年 First Year	Acctives Co	urses				
校外實習(暑期)一	Internship Program (outside-campus) on Summer Vacation (I)				3	0	3
Mary Mary	第二學年 Second Year		I	I	_		_
專業倫理與社會責任	Professional Ethics and Social Responsibility	3	3	0			
職場倫理實習(一)	Workplace Ethics (I)	3	0	3			
資訊技術實習(一)	Computer Applications Practice (I)	3	0	3			
電子技術實習(一)	Electronic Skill Practice (I)	3	0	3			
產業實務實習(一)	Industrial Skill Practice (I)	3	0	3			
職場倫理實習(二)	Workplace Ethics (II)				3	0	3
資訊技術實習(二)	Computer Applications Practice (II)	1			3	0	3
電子技術實習(二)	Electronic Skill Practice ()				3	0	3
產業實務實習(二)	Industrial Skill Practice (II)				3	0	3
生亦貝仍貝白(一)	moustral Skill Flactice (II)	1			J	U	,

備註 Note:

- 一、畢業至少應修滿72學分【必修32學分,選修至少40學分(須含本系專業選修至少27學分)】
 - Students should complete at least 72 credits before graduation, including 32 required credits, 40 elective credits (elective credits should have at least 27 credits from department elective courses).
- 二、本校訂有「國立勤益科技大學學生英文及資訊能力與服務學習畢業門檻辦法」,請依規定辦理。 Please follow the rule of English, Computer Ability and Service Learning Graduation Threshold in National Chin-Yi University of Technology.
- 三、學生於畢業前須修過「學術研究倫理教育課程」必修 0 學分(6 小時)課程。 Before graduation, each student should complete Academic Research Ethics Education Course, which is 6 hours required course with 0 credit.