

111學年度日間部國際產學合作專班(秋季班)-電子工程系選修課程變動表

111學年度科目	第_學年/學期	學分/時數	111學年度科目	第_學年/學期	學分/時數	變動類別(停開、新增、更改課程名稱、學分)	修訂及重補修原則說明
			視覺光學	四下	3/3	新增	111學年入學起適用
			電腦輔助光學系統設計	四下	3/3	新增	111學年入學起適用
			實體設計工程	四下	3/3	新增	111學年入學起適用
			電腦輔助實體設計	四下	3/3	新增	111學年入學起適用
			光學工廠	四下	3/3	新增	111學年入學起適用
			半導體製程設備技術	四下	3/3	新增	111學年入學起適用
			太陽光電技術	四下	3/3	新增	111學年入學起適用
			固態照明	四下	3/3	新增	111學年入學起適用
			APP程式設計	四下	3/3	新增	111學年入學起適用
			微處理機應用	四下	3/3	新增	111學年入學起適用
			行動運算實務	四下	3/3	新增	111學年入學起適用
			真空技術實務	四下	3/3	新增	111學年入學起適用
			複合材料與應用	四下	3/3	新增	111學年入學起適用
			平面顯示器概論	四下	3/3	新增	111學年入學起適用

系課務委員簽章：

明新科技大學電子系
課程教學小組

系主任簽章：

電子工程系 張承勛
主任

院長簽章：

半導體學院 陳啟文
院長

MUST Curriculum Planning for Undergraduate Students of Academic Year 2022-2025,
Department of Electronics Engineering

1 st year(111)				2 nd year(112)				3 rd year(113)										
Course	1 st semester		2 nd semester		Course	1 st semester		2 nd semester		Course	1 st semester		2 nd semester					
	Cr.	hr.	Cr.	hr.		Cr.	hr.	Cr.	hr.		Cr.	hr.	Cr.	hr.				
MUST Core Required Courses	Physical Education	2	2	2	2	MUST Core Required Courses					MUST Core Required Courses	Taiwanese Classified General Education	2	2				
	Chinese Pinyin & Pronunciation Practice	1	2											Taiwanese Society	2	2		
	Chinese Listening Practice	1	2											Taiwanese Culture		2	2	
	Chinese Conversation Practice	1	2											Taiwanese Art		2	2	
	Chinese Reading and Practice	1	2															
	Chinese Writing Practice	1	2															
	Chinese tutor	0	5															
	Chinese literature			3	3													
	Chinese culture			3	3													
	Subtotal	7	17	8	8		Subtotal						Subtotal	4	4	4	4	
School Professional Required Courses	Technical English(I)(II)	2	2	2	2	School Professional Required Courses					School Professional Required Courses	Technical English(III)(IV)	2	2	2	2		
														Ethics for Engineers			2	2
	Subtotal	2	2	2	2		Subtotal						Subtotal	2	2	4	4	
compulsory courses	※Applied Mathematics	2	2			compulsory courses	※Industrial Practice (I) (II)	9	9	9	9	compulsory courses	※Programmable components Application	3	3			
	※Basic Electronics Experiment	2	2															
	※Basic Electriciv	2	2															
	※Computer Program			3	3													
	※Basic Circuit Theorv			3	3													
	※Electronics			3	3													
	※Digital Logic			3	3													
	※Digital Logic Lab			3	3													
	※Engineering Mathematics			3	3													
	※Physics(I)(II)	2	2	2	2		Subtotal	9	9	9	9		Subtotal					
Subtotal	8	8	20	20														
Elective Courses					Elective Courses					Elective Courses	Design of Digital System	3	3					
													Object-oriented programming	3	3			
													Python Programming	3	3			
													Practice to Mobile Communication Applications	3	3			
													Microprocessor Principles	3	3			
													Singlechip Microcontroller Lab	3	3			
													Applications of Internet of Things			3	3	
													Robot Assembly Control Practice			3	3	
													Mobile and Arduino control			3	3	
													Automatic Measurement			3	3	
													Application and Principle of Sensors			3	3	
													Microcomputer Interface Technology			3	3	
													Introduction to Wireless Communications Systems			3	3	
													Wireless Technology Practice			3	3	
													Robot Assembly Control Practice			3	3	
										Computer Aided Layout Lab			3	3				
										IC Simulation Practice			3	3				

4 th year(114)					
Course	1 st semester		2 nd semester		
	Cr.	hr.	Cr.	hr.	
MUST Core Required Courses					
	Subtotal				
School Professional Required Courses					
	Subtotal				
compulsory courses					
	Subtotal				
Elective Courses	Industrial Practice (III)	9	32		
	Industrial Practice (IV)			9	32
	Integrated Circuits Engineering	3	3		
	Applied Robotics	3	3		
	The Certification For The Design and Manufacture Capabilities Of The Digital Electronics	3	3		
	Linear Algebra	3	3		
	Labview Programming Design	3	3		
	Artificial Intelligence-Deep Learning	3	3		
	Python Program Application	3	3		
	Machine Learning with Python	3	3		
	Generative AI and Applications	3	3		
	Spectral Analysis	3	3		
	Engineering Terminology	3	3		
	Microcomputer Interface Practice	3	3		
	FPGA Design and Application			3	3
	Probability and Statistics			3	3
	Basic practice of wheeled robots			3	3
	Vision Optics			3	3
	Computer-Aided Optical System Design			3	3
	Engineering of Solid Design CAD			3	3
	Certification of Solid Design CAD and Product Design			3	3
	Optical Factory			3	3
	Semiconductor Manufacturing Equipment			3	3
	Solar Photovoltaic Technology			3	3
	Solid State Lighting			3	3
App Programming			3	3	
Micro-computer Application			3	3	
Mobile Computing Practice			3	3	
Practical Vacuum Technology			3	3	
Composite Materials and Applications			3	3	
Introduction of Flat Panel Displays			3	3	

Cr./hr.-Credit hour

Remarks:

1. Minimum credits required for graduation: 128 credits including 82 compulsory credits, and at least 46 elective credits(including the interdepartmental elective credits).
2. Undergraduate students shall take 5-hour chinese tutoring courses (0 credits) in the first semester of the first academic year.
3. Inter-departmental elective credits are transferable. Professional elective course credits shall not be fewer than 36 .
4. The off-campus internship courses include: Industry Practice Internship (I), (II), (III), (IV), with a maximum of 80 hours of off-campus internship for one credit. Industry Practice Internship (I) and (II): The actual internship hours range from 32 to 36 hours per week. Industry Practice Internship (III) and (IV): The actual internship hours range from 32 to 40 hours per week.
5. The elective courses listed in the tables are subject to adaptation when necessary.

115.01.06

明新科技大學電子系
課程教學小組

電子工程系
主任張丞勛



明新學院
院長陳啟文