

吳鳳科技大學 日間部 電機工程系半導體暨光機電 碩士班 課程表 (115學年度入學學生適用)

The Curriculum Framework for the Institute of Opto-Mechanical Engineering and Materials, Department of Electrical Engineering at WuFeng University for the 115 Academic

	第一學年(First Academic Year)						第二學年(Second Academic Year)						小計 subtotal	
	上(First Semester)			下(Second Semester)			上(First Semester)			下(Second Semester)				
	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour	學分 Credit	時數 Hour
專業必修 (Compulsory courses by the department)	專題討論(一) Seminar (I)	1	1	專題討論(二) Seminar (II)	1	1	專題討論(三) Seminar (III)	1	1	專題討論(四) Seminar (IV)	1	1		
							碩士論文(一) Master Thesis (I)	3	3	碩士論文(二) Master Thesis (II)	3	3		
	小計/subtotal	1	1		1	1		4	4		4	4	10	10
	必修小計/Compulsory subtotal	1	1		1	1		4	4		4	4	10	10
專業選修 (Elective courses of the department)	半導體製程技術 Semiconductor manufacturing process technology	3	3	半導體元件設計與模擬 Semiconductor Device Design and Simulation	3	3	半導體電路設計與模擬 Semiconductor Circuit Design and Simulation	3	3	人工智慧晶片設計 AI chip design	3	3		
	半導體元件物理 Physics of Semiconductor Devices	3	3	創意綠色科技 Innovative Green Technology	3	3	半導體量測與檢測技術 Semiconductor Metrology and Inspection Technology	3	3	半導體產業與技術趨勢 Semiconductor Industry and Technology Trends	3	3		
	光電子學 Optoelectronics	3	3	雷射原理與應用 Laser Principles and Applications	3	3	智慧聯網技術 Smart Network Technology	3	3	光電量測與檢測技術 Optoelectronic Measurement and Inspection Technology	3	3		
	智慧物聯網技術 Smart IoT Technology	3	3	太陽能光電技術 Solar Photovoltaic Technology	3	3	照明技術 Lighting Technology	3	3	光電產業技術與發展 Optoelectronic Industry Technology and Development	3	3		
	機電能量轉換 Electromechanical Energy Conversion	3	3	EtherCAT馬達伺服控制 EtherCAT Servo Motor Control	3	3	有限元素分析與應用 Finite Element Analysis and Applications	3	3	機電整合特論 Advanced Topics in Mechatronics Integration	3	3		
	數位感測器應用 Digital Sensor Applications	3	3	實驗設計法 Experimental Design Method	3	3	工業機器人 Industrial Robots	3	3	工業節能與安全實務 Industrial Energy Conservation and Safety Practices	3	3		
選修學分/學時 Elective credits/hours		6	6		6	6		6	6		6	6	24	24
預計開課學分/學時 Estimated course credits/hours		7	7		7	7		10	10		10	10	34	34

備註/Notes:

1、畢業學分/Graduation credits:

本所碩士班學生應取得至少 34 學分(含 必修科目之專題討論(一)-(四)共4學分、碩士論文(一)及(二)共6學分、專業選修24學分，以上方可畢業。
To graduate, students in our master's program must obtain a minimum of 34 credits (including 4 credits for the required special topic discussions (I) to (IV), 6 credits for the master's thesis (I) and (II), and 24 credits for elective courses).

2、同領域各選修科目得視產業趨勢與人力需求調整。
Elective courses in the same field may be adjusted based on industry trends and manpower needs.

3、專題討論(一)、(三)合班上課;專題討論(二)、(四)合班上課;專題討論沒有先後順序。
Special Discussions (I) and (III) will be taught in one class; Special Discussions (II) and (IV) will be taught in one class; there is no order of priority for Special Discussions.

4、訂(修)定歷程:

115.06.26電機工程系114學年度第2學期第3次課程委員會通過;115.07.21安全工程學院114學年度第2學期第3次課程委員會通過;115.07.29 114學年度第2學期第6次校課程委員會通過。
115/06/26 Department of Electrical Engineering 114 academic year 2nd semester, adopted by the 3rd Curriculum Committee conference. 115/07/21 114 academic year 2nd semester, adopted by the College of 3rd Curriculum Committee conference. 115/07/29 114 academic year 2st semester, adopted by the 6st Curriculum Committee conference.