# 國立彰化師範大學

# 機電工程學系碩士班畢業條件表暨課程架構表

(115學年度入學學生適用)

National Changhua University of Education

Graduation Requirements and Course Structure for Master's Program of Mechatronics Engineering (Applicable for students in 115 academic year)

列印日期(Print Date:2025/11/10)

# 一.系必修課程

# **I.Department Required Courses**

課程名稱 Course Name	學分/學時 Credit(s)/ Hour(s)	年級 Grade	學期 Semester
書報討論(一) Seminar I	1/2	1	1
書報討論(二) Seminar II	1/2	1	2
論文指導(一) Thesis Supervision I	3/3	2	1
論文 Thesis	0/0	2	2
論文指導(二) Thesis Supervision II	3/3	2	2

# 二.系選修課程

# **II.Department Elective Courses**

課程名稱 Course Name	學分/學時 Credit(s)/ Hour(s)
共同選修	
Common Elective	
光機電工程與應用	3/3
Opto-Mechatronic Engineering and Applications	3/3
科技英文	3/3
English for Science and Technology	3/3
中英文翻譯	3/3
Chinese-English translation	3/3
科技英文寫作	3/3
Fechnical English Writing	3/3
應用數值演算法	3/3
Applied Numerical Algorithms	3/3
機電控制核心選修(至少3學分)	
Mechatronics Control Core Electives(3 credits is least required)	
人工智慧	3/3
Artificial Intelligence	5/5
有限元素分析	3/3
Finite Element Analysis	5/3
系統設計與動態分析	3/3
System Design and Dynamic Analysis	5/3

部基型控制系統設計 Intelligent Control System Design  A、機飛行原理 Principles of UAV Flight 機械振動學 Mechanical Vibration  結構動脈膜控制  3/3  2/3  2/3  2/3  2/3  2/3  2/3  2/
無人機飛行原理 Principles of UAV Flight 機械振動學
Principles of UAV Flight 機械振動學 3/3 機械振動學 3/3 結構動態與控制 3/3 Situsture Dynamics & Control
### Principles of UAV Flight 機械振動學 3/3    機械振動學 3/3    総にはいき Dynamics & Control   3/3    電腦、通訊與控制 3/3    Computer, Communication, and Control   3/3    精密機械 3/3    神経 3/3    神
Mechanical Vibration  結構動態與控制  Structure Dynamics & Control  電腦、通訊與控制  3/3  Remain Machinery  3/3  現代控制工程  Modern Control Engineering  實驗設計與工程分析 Experimental Design and Engineering Analysis 機電系統整合設計  Mechatronics System Integration Design  機電控制專業選修  Mechatronics Control Specialized Electives  工程設計與分析 Engineering Design and Analysis  可靠度工程(一)  Reliability Engineering I  物聯網理論與賈務  10 10 Theory and Practice  影像辨調與人工智慧  Image Recognition and Artificial Intelligence  複合材料力學  Mechatronics Of Composite Materials  人工智慧物聯網系統設計  3/3  Machatronics Of Composite Materials  人工智慧物聯網系統設計  3/3  Machatronics Of Composite Materials
総信報節 医 突 を
Structure Dynamics & Control  電腦、通訊與控制 Computer, Communication, and Control  精密機械 Precision Machinery  現代控制工程 Modern Control Engineering 實験設計與工程分析 Experimental Design and Engineering Analysis 機電系統整合設計 Mechatronics System Integration Design 機電控制專業選修 Mechatronics Control Specialized Electives 工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I  物聯網理論與實務 Iof Theory and Practice  影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechatronics of Composite Materials 人工智慧物聯網系統設計  3/3  3/3  3/3  3/3  3/3  3/3  3/3  3
Structure Dynamics & Control 電腦、通訊與控制 Computer, Communication, and Control 開密機械 Precision Machinery  現代控制工程 Modern Control Engineering 實驗設計與工程分析 Experimental Design and Engineering Analysis 機電系統整合設計 Mechatronics System Integration Design 機電控制專業選修 Mechatronics Control Specialized Electives  工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I 初勝網理論與實務 Integration Design 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計  3/3  3/3  3/3  3/3  3/3  3/3  3/3  3
Computer, Communication, and Control  精密機械 Precision Machinery  現代控制工程 Modern Control Engineering  實驗設計與工程分析 Experimental Design and Engineering Analysis  機電系統整合設計 Mechatronics System Integration Design  機電控制專業選修 Mechatronics Control Specialized Electives 工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I  物聯網理論與實務 IoT Theory and Practice  影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3  3/3  3/3  3/3  3/3  4/3
精密機械 Precision Machinery 現代控制工程 Modern Control Engineering  實驗設計與工程分析 Experimental Design and Engineering Analysis 機電系統整合設計 Mechatronics System Integration Design 機電控制專業選修 Mechatronics Control Specialized Electives 工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I 物聯網理論與實務 Iof Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計  3/3
Precision Machinery 現代控制工程 Modern Control Engineering 實驗設計與工程分析 實驗設計與工程分析 表实perimental Design and Engineering Analysis 機電系統整合設計 Mechatronics System Integration Design 機電控制專業選修 Mechatronics Control Specialized Electives 工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I 物聯網理論與實務 Iof Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計  3/3  3/3  3/3  3/3  4/3  4/3
現代控制工程 Modem Control Engineering  實驗設計與工程分析 Experimental Design and Engineering Analysis 機電系統整合設計 Mechatronics System Integration Design  被電控制專業選修 Mechatronics Control Specialized Electives 工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I  初勝網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計  3/3  3/3  3/3  4/3  4/3  4/3
Modem Control Engineering 3/3 實驗設計與工程分析 Experimental Design and Engineering Analysis 機電系統整合設計 Mechatronics System Integration Design  機電控制專業選修 Mechatronics Control Specialized Electives 工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I 物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計  3/3  3/3  3/3  3/3  3/3  3/3  3/3  3
實驗設計與工程分析 Experimental Design and Engineering Analysis 機電系統整合設計 Mechatronics System Integration Design 機電控制專業選修 Mechatronics Control Specialized Electives 工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I 物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計  3/3  3/3  3/3  3/3  3/3  3/3  3/3
Experimental Design and Engineering Analysis 機電系統整合設計 Mechatronics System Integration Design  機電控制專業選修 Mechatronics Control Specialized Electives  工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I  物聯網理論與實務 IoT Theory and Practice  影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3  3/3  3/3  3/3  4/3  4/3
機電系統整合設計 Mechatronics System Integration Design 機電控制專業選修 Mechatronics Control Specialized Electives 工程設計與分析 Engineering Design and Analysis 可靠度工程(一) Reliability Engineering I 物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計  3/3  3/3  3/3  3/3  3/3  3/3
Mechatronics System Integration Design 機電控制專業選修 Mechatronics Control Specialized Electives  工程設計與分析 Engineering Design and Analysis  可靠度工程(一) Reliability Engineering I  物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3  3/3  3/3  3/3  3/3
機電控制専業選修 Mechatronics Control Specialized Electives  工程設計與分析 Engineering Design and Analysis  可靠度工程(一) Reliability Engineering I  物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3  3/3  3/3  3/3
Mechatronics Control Specialized Electives  工程設計與分析 Engineering Design and Analysis  可靠度工程(一) Reliability Engineering I  物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3  3/3  3/3  3/3
工程設計與分析 Engineering Design and Analysis  可靠度工程(一) Reliability Engineering I  物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3  3/3  3/3  3/3
Engineering Design and Analysis  可靠度工程(一) Reliability Engineering I  物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3  3/3  3/3
可靠度工程(一) Reliability Engineering I 物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3  3/3
Reliability Engineering I 物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計  3/3  3/3  3/3
物聯網理論與實務 IoT Theory and Practice 影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3
IoT Theory and Practice  影像辨識與人工智慧 Image Recognition and Artificial Intelligence  複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3
影像辨識與人工智慧 Image Recognition and Artificial Intelligence 複合材料力學 Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3
Image Recognition and Artificial Intelligence 3/3 複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計 3/3
複合材料力學 Mechanics of Composite Materials 人工智慧物聯網系統設計  3/3
Mechanics of Composite Materials  人工智慧物聯網系統設計  3/3
人工智慧物聯網系統設計 3/3
I 3/3
工具機系統設計分析
Machine Tool System Design and Analysis  3/3
Reliability Engineering II
Generative Artificial Intelligence
系統動態 與控制
System Dynamics and Control 3/3
· · · · · · · · · · · · · · · · · · ·
Theoretical Dynamics 3/3
工程設計最佳化
Engineering Design Optimization 3/3
Internet System Design
-
智慧型監控系統設計
智慧型監控系統設計 Smart Monitor System Design 3/3
Smart Monitor System Design 3/3 解析動態學
Smart Monitor System Design

<b>資訊與網路安全</b>	3/3
Information and Network Security	
C#程式設計	3/3
C# Programming	
散熱模組設計與應用	3/3
Thermal Module Design and Application	
結構力學 	3/3
Structural Mechanics	
微機器學習與感測應用	3/3
Applications of Tiny Machine Learning and Sensing	
精密運動控制 Precise Motion Control	3/3
數位控制 Digital Control	3/3
線性振動學	
だ	3/3
光電應用核心選修(至少3學分) Optoelectronics Application Core Electives(3 credits is least required)	
人工智慧晶片設計與應用 Artificial Intelligence Chip Design and Applications	3/3
太陽電池原理與製程	
入物电池原理與装住 Principle and Process of Solar Cells	3/3
半導體製程	
十等履教性 Semiconductor Processes	3/3
光電系統設計與應用	
Application and Design of Optical Electronic System	3/3
應用電子學	
Applied Electronics	3/3
光機電系統設計	
Opto-Electro Mechanical System Design	3/3
微感測技術與應用	
Design and Applications of Microsensors	3/3
數位影像處理	2.42
Digital Image Processing	3/3
半導體元件物理	2 /2
Physics of Semiconductor Devices	3/3
薄膜製程與應用	2 /2
The flim processes and appilications	3/3
光電應用專業選修	
Optoelectronics Application Specialized Electives	
平面顯示器導論	3/3
Introduction to Flat Panel Display	<i>J</i> / <i>J</i>
光電半導體元件	3/3
Optoelectronic Semiconductor Devices	5/ 5
光學微影與蝕刻	3/3
Photolithography and Etching	<i>J, J</i>
<b>奈微系統製程</b>	3/3
Nano- and Microfabrication	
微機電工程與應用	3/3
MEMS Engineering and Applications	

Biophotonics  生 蟹微機電系統 Biomedical microelectromechanical systems  光電工程實務 Practical Electro-Optic Engineering  光學系統設計	生醫光電	
生 需 微機 電系統 Biomedical microeketromechanical systems  光電工程 實務 Practical Eketro-Optic Engineering  光學系統設計 Optical System design  森 微機 電系統 Asno & Microeketromechanic System  單品 片控制 與應用 Single Chip CPU Control & Application  微波電影計 與量別 Microwave Circuit Design and Measurement  微波積體電路設計 Microwave Integrated Circuit Design 電子封装 Electronic Encapsulation  電子封装 Electronic Encapsulation  物理光學 Physical Optics  無線通訊系統 Wireless Communication Systems  國 观器與介面電路設計與應用  3/3  Wireless Communication Systems  國 观器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  顕比特體電路設計 現た積體電路設計  3/3  3/3  4/3  4/3  4/3		3/3
Biomedical microelectromechanical systems  光電工程實務 Practical Electro-Optic Engineering  光學系統設計 3/3 Optical system design  索微機電系統 3/3 Nano & Microelectromechanic System  電局 打控制與應用 Single Chip CPU Control & Application  微波電路設計與量別 Microwave Circuit Design and Measurement  微波積體電路設計 Microwave Integrated Circuit Design 電子封裝 Blectronic Encapsulation  精體電路設計與應用 3/3 Integrated Circuit Design and Applications 物理光學 Physical Optics  無線通訊系統 Wireless Communication Systems   越湖發射用應用 3/3  Microwave Integrated Circuit Design and Applications  新理光學 System Systems  3/3  Mireless Communication Systems   越湖路與介面電路設計與應用 3/3  Mireless Communication Systems   越別路與介面電路設計與應用 3/3  Mireless Communication Systems   越別路與介面電路設計與應用 3/3  Microwave Integrated Circuits  新具比積體電路設計		
Biomedical microelectromechanical systems  光電工程實務 Practical Electro-Optic Engineering  光學系統設計 Optical system design 索機電系統 Nano & Microelectromechanic System  電局 持控制與應用 Single Chip CPU Control & Application  微波電路設計與量測 Microwave Circuit Design and Measurement  微波積體電路設計 Microwave Integrated Circuit Design 電子封装 Belectronic Encapsulation  精體電路設計與應用 Integrated Circuit Design and Applications  物理光學 为別  対象  対象  対象  対象  対象  対象  対象  対象  対象  対		3/3
Practical Electro-Optic Engineering  光學系統設計 Optical system design  希微機電系統 Nano & Microelectromechanic System  單晶片控制與應用 Single Chip CPU Control & Application  微波電路設計與量測 Microwave Circuit Design and Measurement  微波積體電路設計 Microwave Integrated Circuit Design  電子封裝 Electronic Encapsulation  精體電路設計與應用 Integrated Circuit Design and Applications  物理光學 Physical Optics  無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用  a/3  Microwave Circuit Design and Applications  新生光學 Physical Optics  無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用  3/3  Microwave Circuit Design and Applications  新生光學 Physical Optics  無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用  3/3  Microwave Circuit Design and Application of Sensors Interface Circuits  類比積體電路設計		
Practical Electro-Optic Engineering  光學系統設計 Optical system design  希微機電系統 Nano & Microelectromechanic System  電局 月控制與應用 Single Chip CPU Control & Application  微液電路設計與量測 Microwave Circuit Design and Measurement  微液積體電路設計 Microwave Integrated Circuit Design  電子封裝 Electronic Encapsulation  精體電路設計與應用 Integrated Circuit Design and Applications  物理光學 Physical Optics  無線通訊系統 Wireless Communication Systems  感测器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計 類比積體電路設計	光電工程實務	3/3
	Practical Electro-Optic Engineering	3,3
Optical system design  希微機電系統 Nano & Microelectromechanic System  all 片控制與應用 Single Chip CPU Control & Application  微波電路設計與量測 Microwave Circuit Design and Measurement  微波積體電路設計 Microwave Integrated Circuit Design  電子封裝 Bectronic Encapsulation  精體電路設計與應用 Integrated Circuit Design and Applications  物理光學 Physical Optics  無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  現法  現法  現法  現法  現法  現法  現法  現法  現法  現	光學系統設計	2/2
Nano & Microelectromechanic System  I all 打控制與應用 Single Chip CPU Control & Application  Wize Bab 計與量別 Microwave Circuit Design and Measurement  Wize Bab 計與應用 Microwave Integrated Circuit Design  I style Bettronic Encapsulation  The grated Circuit Design and Applications  Wize Bab 計與應用 Integrated Circuit Design and Applications  Wize Bab 計與應用 Integrated Circuit Design and Applications  Wize Bab 計與應用  Integrated Circuit Design and Applications  Wize Bab 計與應用  Integrated Circuit Design and Applications  Wize Bab 計與應用  I style Bab 計算  I style Bab 計算  I style Bab 計算  I style Bab in Bab	Optical system design	3/3
Nano & Microelectromechanic System   I all 持軸與應用 Single Chip CPU Control & Application  (被波電路設計與量測 Microwave Circuit Design and Measurement  (被波積體電路設計 Microwave Integrated Circuit Design  I all all all all all all all all all al	<b>奈微機電系統</b>	2 /2
Single Chip CPU Control & Application  微波電路設計與量測  Microwave Circuit Design and Measurement  微波積體電路設計  Microwave Integrated Circuit Design  電子封裝 Electronic Encapsulation  積體電路設計與應用 Integrated Circuit Design and Applications  物理光學 Physical Optics  無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  類比積體電路設計  3/3  3/3  3/3  3/3  3/3  3/3  3/3  3	Nano & Microelectromechanic System	3/3
Single Chip CPU Control & Application 微波電路設計與量測 Microwave Circuit Design and Measurement 微波積體電路設計 Microwave Integrated Circuit Design 電子封裝 Electronic Encapsulation 積體電路設計與應用 Integrated Circuit Design and Applications 物理光學 Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 3/3  Wireless Communication Systems  感測器與介面電路設計與應用 3/3  数计積體電路設計	單晶片控制與應用	2 /2
Microwave Circuit Design and Measurement  微波積體電路設計 Microwave Integrated Circuit Design 電子封裝 Electronic Encapsulation 積體電路設計與應用 Integrated Circuit Design and Applications 物理光學 Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits 類比積體電路設計  3/3  3/3  3/3  3/3  3/3  3/3  3/3  3	Single Chip CPU Control & Application	3/3
Microwave Circuit Design and Measurement  微波積體電路設計 Microwave Integrated Circuit Design  電子封裝 Electronic Encapsulation 積體電路設計與應用 Integrated Circuit Design and Applications  物理光學 Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	微波電路設計與量測	2/2
Microwave Integrated Circuit Design 電子封裝 Electronic Encapsulation  積體電路設計與應用 Integrated Circuit Design and Applications 物理光學 Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits 類比積體電路設計  3/3 3/3 3/3	Microwave Circuit Design and Measurement	3/3
Microwave Integrated Circuit Design  電子封裝 Electronic Encapsulation  積體電路設計與應用 Integrated Circuit Design and Applications 物理光學 Physical Optics  無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	微波積體電路設計	2/2
Electronic Encapsulation  積體電路設計與應用 Integrated Circuit Design and Applications  物理光學 Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3  3/3  3/3	Microwave Integrated Circuit Design	3/3
Electronic Encapsulation 積體電路設計與應用 Integrated Circuit Design and Applications 物理光學 Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	電子封裝	2/2
Integrated Circuit Design and Applications 物理光學 Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3  3/3  3/3	Electronic Encapsulation	3/3
Integrated Circuit Design and Applications 物理光學 Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	積體電路設計與應用	2 /2
Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	Integrated Circuit Design and Applications	3/3
Physical Optics 無線通訊系統 Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	物理光學	2 / 2
Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	Physical Optics	3/3
Wireless Communication Systems  感測器與介面電路設計與應用 Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	無線通訊系統	2 /2
Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	Wireless Communication Systems	3/3
Design and Application of Sensors Interface Circuits  類比積體電路設計  3/3	感測器與介面電路設計與應用	2/2
1 3/3	Design and Application of Sensors Interface Circuits	3/3
Analog Integrated Circuit Design	類比積體電路設計	2/2
	Analog Integrated Circuit Design	3/3

#### 三.先修科目

#### **III.Prerequisite Courses**

先修課程	後修課程
Prerequisite Course	Subsequent Course

#### 四.畢業條件

#### **IV.Graduation Requirements**

- 1.最低畢業學分數:24學分(不含教育學程、論文、論文指導、書報討論)。
- 2.畢業學分須含機電控制核心選修課程與光電應用核心選修課程至少各3學分。
- 3.修課經指導教授同意可選修外系或外校研究所開設科目(不限學期),至多6學分。
- (選課前送教授同意表至系辦備查)。
- 4.凡選修本系研究所開設科目(不限學期),一律承認為本系畢業學分。
- 5.學生除須修滿應修學分外,同時須符合本系碩士班研究生畢業規定,方具備畢業資格。
- 6.【研究生應於申請學位考試前修習通過於「臺灣學術倫理教育資源中心」(https://ethics.nctu.edu.tw/)網路教學平台之「學術研究倫理教育」課程】等相關規定。

- 1. Minimum graduation credits: 24 credits (excluding education programs, thesis, thesis supervision, and seminars).
- 2. Graduation credits must include at least 3 credits each in mechatronic control core elective courses and optoelectronic application core elective courses.
- 3. With the approval of the advisor, students may take up to 6 credits of courses offered by other departments or universities (regardless of the semester). (A consent form must be submitted to the department office for record before enrolling in the courses.)
- 4. Any courses taken from this department's graduate programs (regardless of the semester) will be recognized as part of the department's graduation credits.
- 5. Besides fulfilling the required credits, students must also meet the graduation requirements of the master's program of this department to qualify for graduation.
- 6. Graduate students must complete and pass the "Academic Research Ethics Education" course provided by the "Taiwan Academic Ethics Education Resource Center" (https://ethics.nctu.edu.tw/) on its online teaching platform, among other related requirements, before applying for the degree examination.