

# 明志科技大學

規章編號

A100310002

International Master Program on Mechatronics and Control

機電整合與控制國際碩士學分學程實施要點

制定部門：明志科技大學工程學院

中華民國 105 年 12 月 27 日 制訂

修訂記錄：

104 年 03 月 31 日第六次院主管會議制訂與審議

104 年 04 月 02 日第四次院課程委員會議審議通過

104 年 04 月 21 日第四次教務會議審議通過

105 年 07 月 07 日第四次院課程委員會議審議通過

105 年 11 月 11 日第一次院務會議審議通過

105 年 11 月 18 日第一次院課程委員會議審議通過

105 年 12 月 27 日第二次教務會議審議通過

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International Master Program on Mechatronics and Control  
(機電整合與控制國際碩士學分學程實施要點)

104.04.02 院課程委員會會議通過

105.12.27 校教務會議通過

第一條 設置宗旨 (Article 1: Purposes)

This international master course program aims to link courses related to mechatronics and control. These courses are offered in Departments of the Electrical, Electronic and Mechanical Engineering. This English taught program offers students from domestic area and around the world unique opportunities to learn mechatronics/control knowledge and technique. In addition, this program is designed to encourage cross-disciplinary learning and to offer foreign students a flexible curriculum. It includes the courses offered in English from all the departments in the college and aims to equip students with the core knowledge in each engineering discipline. International students can thus acquire the basic training of different fields. They can then conduct research work in specific department and pursue an advanced degree correspondingly according to their own interests.

本國際碩士學分學程課程由工程學院各系提供，學程內容連貫機電整合與控制專業相關之理論與實務課程，此學程採全英語教學，提供本國與外籍學生修習。此外，此學程也鼓勵本國學生修習跨領域知識與技術，對於外國學生而言，本學程提供整合專業與修課彈性，學生修習各系與機電工程與控制共通之專業後，可依照各自的研究興趣深入鑽研，進而獲得碩士學位。

第二條 修讀資格 (Article 2: Applicants)

All graduate students whose majors are in the college of engineering can take courses in this international master course program. A certificate will be conferred on the graduate students who have completed the required credits of this program.

本院碩士班學生皆可修讀本國際碩士學分學程，完成學程學分規定者，將頒予學分學程證明。

第三條 修課規定 (Article 3: Program Regulations)

In order to be qualified for a “program certificate” students have to take a minimal credit hours of **20** of this international course program. In addition, among these, 6 credits at least must not be the required course of their majors or minors.

符合下列規定者方發給學程證明：修滿此學程學分數至少為 **20** 學分以上，且修習科目至少有 6 學分不屬於學生主修、輔系應修之科目。

#### 第四條 課程規劃(Article 4: Course content)

This program includes all courses listed below which will be offered in English.)

本學程以全英文授課，開設課程如附表二

#### 第五條 證書取得資格 (Article 5: Program certificate)

Those students, who have completed sufficient courses and credits as elaborated in Article 3, are entitled to apply to this university for the issuance of the program certificate. To apply, students have to fill the application form attached to this code.

修畢本學程規定學分數且成績及格之學生，得檢具歷年中、英文成績單各乙份，並填寫「學分審核表」如附表一(A100310102)，送交學院辦公室彙整後送院課程委員會議通過後，統一向教務處提出申請修習學分學程證明書。

#### 第六條 未盡事宜 (Article 6: issues have been concerned)

Those code, which are not concerned by this code, shall be arranged according with other relevant and related rules/regulations of this university.

本辦法未規範之事宜，悉依本校學分學程設置辦法及其他相關規定辦理。

#### 第七條 實施與修訂 (Article 7: code commencement and amendment)

This code has to be promulgated by Course Committee Meeting of the College of Engineering, and the Meeting of Academic Affairs of this university. It will come into force after having been approved by the President of this university. Amendment of this code takes the same procedure.

本要點經院課程委員會、院務會議與校教務會議通過，陳校長核定後實施，修訂時亦同。

附表一 工程學院機電控制國際碩士學分學程 學分審核表

Application Form for Program Certificate  
International Master Program on Mechatronics and Control

工程學院機電控制國際碩士學分學程 學分審核表

申請證書別：☐中文；☐英文

申請人(Chinese Name)：	英文姓名(English Name)：
學號(Student ID)：	聯絡電話(Cellphone No)：
系(所)別(Department)：	申請時間 (Time of application)： / /

注意事項：1. 申請者需檢據歷年之中文或英文成績單 A cumulative transcript in Chinese or English is required.

2. 請盡量詳實填寫下表 Fill out the following table in as much detail as possible.

修習科目(Courses taken)		修習時間(course period)			審核(check)
科目名稱 (course title)	學分數 (no. of credit)	學年度 (academic year)	學期 (semester)	成績 (grade)	實得學分數 (credit earned)
學分數合計(Total credits earned)					
備註(Note)					

表號：A100310102

申請人(Signature of Applicant):\_\_\_\_\_

系主任簽章(Signature of Chairman):\_\_\_\_\_

院長(Signature of the Dean)： \_\_\_\_\_

附表二 工程學院機電控制國際碩士學分學程課程規劃(International Master Program on Mechatronics and Control Course content)

This program includes all courses listed below which will be offered in English.) (本學程包含下列全英語課程)

Department (開課系所)	Course Number (課程編號)	Course Title (課程名稱)	上學期		下學期	
			Credit (學分)	Hours (小時)	Credit (學分)	Hours (小時)
Mechanical Engineering (機械系)	1E8065	Engineering Analysis (工程分析)	3	3		
	1E8057	Mechanical Vibration: analysis & measurement (振動分析與量測)			3	3
	1E8002	Numerical Heat Transfer (數值熱傳)			3	3
	1E8022	Technical (Thesis) Writing(科技論文寫作)			2	2
	1E8029	Advanced Dynamics (高等動力學)	3	3		
	1E8074	Practice of Thermal Management Engineering (熱管理工程與實務)			3	3
Electrical Engineering (電機系)	1F8I03	Optimal Control(最佳控制)	3	3		
	1F8N11	Robust Control(強健控制)			3	3
	1F8N06	Fuzzy Logic Control (模糊邏輯控制)			3	3
	1F8N12	Discrete Optimization (離散最佳化)			3	3
	1F8N09	Embedded System(嵌入式系統)	3	3		
Electronics Engineering (電子系)	15800C	Digital Signal Processing (數位訊號處理)	3	3		
	158047	Embedded Microprocessor System (嵌入式微處理器系統)	3	3		
	158050	Digital Image Processing Technologies (數位影像處理技術)	3	3		
	158007	Internet Technology (網際網路技術)	3	3		
	15800D	Advanced Programming Language(程式設計進階)			3	3

Department (開課系所)	Course Number (課程編號)	Course Title (課程名稱)	上學期		下學期	
			Credit (學分)	Hours (小時)	Credit (學分)	Hours (小時)
	158042	半導體元件物理 (Physics of Semiconductor Devices)	3	3		
	158043	顯示科技 ( Display Technologies)			3	3
	158028	半導體元件模擬與測試 ( Semiconductor Devices Simulation and Testing)			3	3

表號：A100310202