

中原大學電子工程學系碩士班、碩士在職進修專班修業辦法

Chung Yuan Christian University Department of Electronic Engineering Academic Guideline for Master's Program and In-Service Master's Program

110 年 7 月 21 日 109 學年度第 2 學期第 3 次教務會議通過
Passed by the 3rd Academic Affairs Meeting of the 109
Academic Year (2nd Semester; July 21, 2021)

111 年 1 月 19 日 110 學年度第 1 學期第 3 次教務會議修正
Amended on January 19, 2022, during the 3rd Academic Affairs Meeting of the 110th Academic
Year

第 1 條 本學系依據中原大學各類學位名稱訂定程序授予要件及代替碩士博士論文認定辦法、
中原大學研究生學位考試作業規章，訂定本辦法。

Art. 1 This guideline is made in accordance with the "Regulations for Master's and Doctoral Degrees Conferment of Chung Yuan Christian University" and the "Regulations of Graduation Examination for Postgraduates in Chung Yuan Christian University (中原大學研究生學位考試作業規章)."

第 2 條 本學系碩士班授予學位之中文、英文名稱如下：

Art. 2 The Chinese and English titles of the degrees conferred by the Master's program of the Department are as follows:

| 學系(所、學位學程) 中文、英文全稱 Department (Institution, Degree Programs) Full Title in Chinese and English | 授予學位名稱 Awarded Degree Title | |
|---|---------------------------------------|---------------------------------|
| | 中文、英文名稱 Chinese / English Title | 英文縮寫 English Abbreviation |
| 電子工程學系 | 工學碩士 | |
| Department of Electronic Engineering | Master of Science | M.S. |

第 3 條 本學系碩士班應修科目及學分依附表一之規定。
碩士在職進修專班應修科目及學分依附表二之規定。

Art. 3 The required courses and credits for the Master's Program in this department are specified in Attachment 1.

The required courses and credits for the In-Service Master's Program are specified in Attachment 2.

第 4 條 修讀規定

1、 研究生修業年限 2 學期者，須修習「書報討論(一)」2 學期；修業年限 3 學期者，須修習「書報討論(一)」2 學期及「書報討論(二)」1 學期；修業年限 4 學期以上

- 者，須修習「書報討論(一)」2學期及「書報討論(二)」2學期。
- 2、 碩士班預備研究生，大學部四年級修習碩士班一年級「書報討論(一)」1至2學期者，得抵免碩士班第一年的「書報討論(一)」1至2學期。但修業年限3學期者，須修習「書報討論(一)」2學期及「書報討論(二)」1學期；修業年限4學期以上者，須修習「書報討論(一)」2學期及「書報討論(二)」2學期。
 - 3、 以技術報告代替論文者，須另加修本系選修3學分。

Art. 4 Study Regulations

1. Graduate students with a study duration of 2 semesters must take "Seminar (I)" for 2 semesters. Students with a study duration of 3 semesters must take "Seminar (I)" for 2 semesters and "Seminar (II)" for 1 semester. Students with a study duration of 4 or more semesters must take "Seminar (I)" for 2 semesters and "Seminar (II)" for 2 semesters.
2. For Pre-Master's Research Students: Undergraduate fourth-year students who take "Seminar (I)" for 1 to 2 semesters of the first year of the Master's program may have 1 to 2 semesters of "Seminar (I)" waived in the first year of the Master's program. However, those with a study duration of 3 semesters must take "Seminar (I)" for 2 semesters and "Seminar (II)" for 1 semester. Students with a study duration of 4 or more semesters must take "Seminar (I)" for 2 semesters and "Seminar (II)" for 2 semesters.
3. For Students Substituting a Technical Report for a Thesis: They must take an additional 3 elective credits within the department.

第5條 論文指導

- 1、 研究生應於入學第一學期前選定論文指導教授，由指導教授負責其學業及研究指導。
- 2、 研究生因故更換指導教授時，須提出「更換指導教授同意書」，且經原指導教授及所長同意，始得更換。指導教授應為本系之專任助理教授以上教師。
- 3、 研究生選課應先與指導教授討論，且須經指導教授同意，方得修習。

Art. 5 Thesis Supervision

1. Graduate students must select their thesis advisor before the end of the first semester of enrollment. The advisor is responsible for the student's academic and research guidance.
2. If a student needs to change their advisor, they must submit a "Consent Form for Changing Advisor," which must be approved by both the original advisor and the department chair before the change can be made. The advisor must be a full-time assistant professor or higher within the department.
3. Students must discuss their course selection with their advisor and obtain their approval before enrolling in any courses.

第6條 學術發表

研究生在學期間須發表國際(內)性會議或期刊論文(須有同儕審核機制)或符合本系「碩士班、碩專班研究生論文查核要點」。發表之論文作者須含指導教授，除指導教授及其認定之專業人士外，該生須為前兩名作者。一篇論文僅一位研究生提出畢業資格審查之用。

研究生經指導教授同意推薦，提出論文審核申請，由學術委員會審核通過，方可提學位考試。

Art. 6 Academic Publication

During their study period, graduate students must publish papers in international (or domestic) conferences or journals that have a peer review mechanism, or meet the department's "Master's

Program and Professional Master's Program Thesis Verification Guidelines."

The published papers must include the advisor as an author. Besides the advisor and other designated professionals, the student must be one of the first two authors. A single paper can only be used by one student for graduation qualification review.

With the advisor's recommendation and consent, the student can submit a thesis review application, which must be approved by the Academic Committee before the student can apply for the degree examination.

第7條 學位論文

- 1、 研究生其論文研究題目、研究動機與目的、文獻探討、研究架構及方法等應符合本所半導體、晶片設計、通訊系統、人工智慧及其他電子等相關專業領域。
- 2、 應於畢業當學期初提交論文計畫書，並以書面審查方式，經學術委員會總人數 2/3 委員查核通過，方得申請學位考試。
- 3、 研究生對專業符合審查結果如有異議，得檢具書面資料與說明向所屬學院申請複審。
- 4、 論文須經原創性比對檢核，結果並經指導教授檢核確認無違反學術倫理情事後，繳交「論文比對結果確認書」。

Art. 7 Thesis Requirements

1. The research topic, motivation, objectives, literature review, research framework, and methods of the graduate student's thesis must align with the department's related professional fields, such as semiconductors, chip design, communication systems, artificial intelligence, and other electronics.
2. The thesis proposal must be submitted at the beginning of the graduation semester. It will be reviewed in writing and must be approved by two-thirds of the total members of the Academic Committee before the student can apply for the degree examination.
3. If the student disagrees with the professional field review results, they may submit written materials and explanations to apply for a re-evaluation by the affiliated college.
4. The thesis must undergo an originality check. After the advisor verifies and confirms that there are no violations of academic ethics, the student must submit the "Thesis Originality Check Confirmation."

第8條 技術報告

- 1、 技術報告之主題與內容應與本系專業相關領域相符，學理分析應具創新性，其採計基準應符合下列規定之一：
 1. 具專利、技術移轉或創新之成果。
 2. 具專業技術或管理之個案研究，經整理分析具整體性及獨特見解貢獻之成果。
 3. 具產學合作、技術應用或實務改善專案具有特殊貢獻之研發成果。
- 2、 研究生以技術報告代替論文者，經指導教授同意，於畢業當學期初提交技術報告計畫書，並以書面審查方式，經學術委員會總人數 2/3 委員查核通過，方得提學位考試。
- 3、 應繳資料：送審應附整體之技術報告，其內容須依「各類學位名稱訂定程序授予要件及代替碩士博士論文認定準則」第十條撰寫。
- 4、 論文須經原創性比對檢核，結果並經指導教授檢核確認無違反學術倫理情事後，繳交「論文比對結果確認書」。

Art. 8 Technical Report

1. The topic and content of the technical report must align with the department's related professional fields, and the theoretical analysis should be innovative. The report should meet one of the following criteria:
 - a. Results that include patents, technology transfer, or innovation.
 - b. Case studies in professional technology or management that provide comprehensive analysis and unique insights.
 - c. Research and development results from industry-academia collaboration, technical application, or practical improvement projects with special contributions.
2. Graduate students opting for a technical report instead of a thesis must obtain approval from their advisor. They must submit the technical report proposal at the beginning of the graduation semester. The proposal will undergo a written review and must be approved by two-thirds of the total members of the Academic Committee before the student can apply for the degree examination.
3. Required Materials: The submission should include the complete technical report, written in accordance with Article 10 of the "Procedures for Granting Various Degree Titles and Recognition Methods for Substituting Master's and Doctoral Theses."
4. The report must undergo an originality check. After the advisor verifies and confirms that there are no violations of academic ethics, the student must submit the "Thesis Originality Check Confirmation."

第9條 本辦法未盡事宜悉依本校學則及相關法令規定辦理。

Art. 9 For matters not covered in this academic guideline, follow the related regulations of the Ministry of Education and Chung Yuan Christian University.

第10條 本辦法經教務會議通過後公布施行，修正時亦同。
本辦法適用於自 111 學年度起研究所入學學生。

Art. 10 This academic guideline and any subsequent changes is passed and approved by the Academic Affairs Committee. This guideline is applicable to students enrolled in graduate programs from the 111 academic year onward.

*Disclaimer: In the event of any difference in interpretation or meaning between the Chinese and English version of this guideline, the Chinese version shall prevail.

中原大學 **電子工程學系碩士班** 應修科目及學分表

List of Required Courses and Credits for **Master's Program**
in the Department of Electronic Engineering at
 Chung Yuan Christian University

(適用 **112** 學年度入學學生)

(Applied to students enrolled in the **112** academic year)

| 科目名稱 Subject Title | | 期程 Semester | 學分數 Credits | 擋修科目及續修條件 Prerequisites & Conditions for continuation | |
|--|--|----------------|----------------|--|------------------|
| | | | | 科目名稱 Subject Title | 限制 Conditions |
| 學系必修科目 Compulsory Subjects | 論文 Thesis | 全 Full | 6(3,3) | | |
| | 書報討論(一) Seminar (I) | 全 Full | 2(1,1) | | |
| | 合計(論文另計) Total (excluding the thesis) | | 2 | | |
| 畢業學分結構表 Credits for Graduation | | | | 說明： 一、全校性規定： 1. 自 105 學年度起外籍研究生入學學生，須修讀華語課程及通過華語文能力測驗（TOCFL）基礎級考試，取得基礎級證書，始得畢業。 2. 有關修課，成績等相關規定請參考學則。 二、學系畢業規定： 1. 碩士論文選擇「畢業論文」之學生，畢業學分數為 26 學分(不含論文)。 2. 碩士論文選擇「技術報告」之學生，畢業學分數為 29 學分(不含論文)。 Explanation: 1. University-wide regulations: a. Since the 105 academic year, foreign graduate students must take Chinese courses and pass the Band A level | |
| 論文類別 Types of Thesis | 性質 Types of Courses | 學分數 Credits | | | |
| 碩士論文 選擇 「畢業論文」 Master's Thesis Option: "Graduation Thesis" | 1、學系必修 Compulsory Courses of the Department | 2 | | | |
| | 2、學系選修 Elective Courses of the Department | 22 | | | |
| | 3、研究生通識選修 General Electives for Graduate Students | 2 | | | |
| | 畢業應修最低學分數 (論文另計) Minimum number of credits for graduation (Thesis is not included) | 26 | | | |
| 論文類別 Types of Thesis | 性質 Types of Courses | 學分數 Credits | | | |
| 碩士論文 | 1、學系必修 | 2 | | | |

| | | | |
|---|--|----|---|
| 選擇 「技術報告」 Master's Thesis Option: “Technical Report” | Compulsory Courses of the Department | | test of the Test of Chinese as a Foreign Language (TOCFL) and obtain an A2 certificate before graduation b. Please refer to the Academic Regulations for courses and grades 2. Department Graduation Regulations : a. Students choosing the "Graduation Thesis" option must complete 26 credits (excluding the thesis). b. Students choosing the "Technical Report" option must complete 29 credits (excluding the thesis). |
| | 2、學系選修 Elective Courses of the Department | 25 | |
| | 3、研究生通識選修 General Electives for Graduate Students | 2 | |
| | 畢業應修最低學分數 (論文另計) Minimum number of credits for graduation (Thesis is not included) | 29 | |

經 111 年 01 月 05 日 110-1-3 校級課程委員會通過。

Passed by the 110-1-3 University Curriculum Committee on January 5, 2022

經 111 年 01 月 19 日 110-1-2 教務會議通過。

Passed by the 110-1-2 Academic Affairs Meeting on January 19, 2022