

2022 Master Graduate Program For Electrical Engineering Department, CHU

111.03.07 修訂

| 學期 semester (credit /hour) | group | First semester | Second semester |
|-------------------------------------|--|--|---|
| Required courses (0/2) | ALL | 書報討論 Seminar(fours semesters required) 論文指導與研究 Thesis Seminar (at least two semesters) | 書報討論 Seminar(fours semesters required) 論文指導與研究 Thesis Seminar ((Second year required) |
| Elective courses 選修 (3/3) | 通訊光電組 Communication optoelectronic group | 電磁波 Electromagnetic Wave 光電工程 (一) Electro-Optical Engineering (I) | 光電工程 (二) Electro-Optical Engineering (II) 光纖通訊 Optical Communication |
| | 系統組 System group | 風力發電系統 Wind Generator System 影像辨識 Image Processing and Recognition 線性系統 Linear Systems 機器學習 Machine Learning 類神經網路 Artificial Neural Networks | 電能轉換控制 Control of Electric Energy Conversion 嵌入式視覺 Embedded Vision 模糊理論 Fuzzy Theory 人工智慧 Artificial Intelligence |
| | 電子電路組 Electronic circuit group | 半導體元件 Semiconductor Devices 小波轉換及其應用 Wavelet Transform and Its Applications 數位信號處理 Digital Signal Processing | 半導體工程 Semiconductor Technology 數位濾波 Digital Filtering 數位影像處理 Digital Image Processing |
| | 微電子暨 晶片設計組 microelectronics cum Chip Design group | 系統晶片設計 System on Chip Design 非揮發記憶體技術 Non-volatile Memory Technology RISC-V 中央處理器設計 RISC-V CPU Design 物聯網實務 Internet of Things Practice 動態隨機存取記憶體技術與設計 Technology and Design of Dynamic Random Access Memory 積體電路與實體設計 Integrated circuit and physical design | 超大型積體電路設計 VLSI Design VLSI 算術運算法 Algorithms of VLSI 類比電路設計 Analog Circuit Design 新興記憶體技術與應用 Emerging Memory Technology and Application 智慧健康照護技術與應用 Intelligent Healthcare Technology and Application 物聯網感知技術 Sensing Technology for Internet of Things 先進封裝技術 Advanced Packaging Technology |

* Graduation Qualifications:

1. **24 credits.** (Include 8 elective courses, 4 semesters of Seminar, and at least two semesters of Thesis Seminar).
2. The **dissertation oral examination** must be passed.
3. **Academic Ethics** Online Course must be Pass
4. Please refer to the **Study Regulations for the Master's Program of the Department.**

*The number of courses offered each academic year will be adjusted according to the actual approved standards.

***畢業資格 Graduation Qualifications:**

1. 24 學分(8 科選修課程、四學期書報討論、及至少二個學期論文指導與研究)。

2. 通過論文口試檢定。

3. 完成『學術研究倫理』相關學習課程。

4. 其他規定參照本系碩士班暨在職專班修業辦法。

*各學年度開課課程數依實際核定標準作調整。