【電機工程學系碩士班】

本系碩士班學生須修畢規定課程至少(含)28 學分。 105 學年度入學新生適用

| 類別 | 科目中文名稱 | 科目英文名稱 | 修 | 學 | 時 | 備註 |
|-----|-------------------|---|---|---|---|-----|
| | | | 別 | 分 | 數 | 174 |
| | 專題研討(一) | Seminar(I) | 必 | 1 | 1 | |
| 核 | 專題研討(二) | Seminar (Ⅱ) | 必 | 1 | 1 | |
| Ü | 專題研討(三) | Seminar (Ⅲ) | 必 | 1 | 1 | |
| 課 | 專題研討(四) | Seminar (IV) | 必 | 1 | 1 | |
| 程 | 科技論文寫作 | Scientific and Technical Writing | 選 | 3 | 3 | |
| | 英文論文寫作 | English Thesis Writing | 選 | 3 | 3 | |
| | 高等類比積體電路 設計 | Advanced Analog IC Design | 選 | 3 | 3 | |
| | 系統晶片設計 | System Chip Design | 選 | 3 | 3 | |
| | 生醫感測器信號處 理晶片設計 | Design of Biosensor Signal Processing Chip | 選 | 3 | 3 | |
| | 非線性系統控制 | Non-Linear Control Systems | 選 | 3 | 3 | |
| | 非線性系統特論 | Advanced Topic on Nonlinear System | 選 | 3 | 3 | |
| | 智慧型控制與設計 | Intelligent Control and Design | 選 | 3 | 3 | |
| 甲組組 | 高等模糊理論與應 用 | Advanced Fuzzy Theory and Applications | 選 | 3 | 3 | |
| | 類神經網路控制特論 | Advanced Topic on Neural Network Control | 選 | 3 | 3 | |
| | 電力電子技術 | Technology of power electronics | 選 | 3 | 3 | |
| | 電源轉換器設計 | Power Converter Design | 選 | 3 | 3 | |
| | 切換式電源供應器 設計實務 | Practical Switching Power Supply Design | 選 | 3 | 3 | |
| | 電力系統 | Power System | 選 | 3 | 3 | |
| | 其他 | Others | 選 | 3 | 3 | |
| | 數位信號處理 | Digital Signal Processing | 選 | 3 | 3 | |
| | 數位通訊 | Digital Communications | 選 | 3 | 3 | |
| | 電磁波相容與設計 | Electromagnetic Compatibility and Design | 選 | 3 | 3 | |
| | 微波工程 | Microwave Engineering | 選 | 3 | 3 | |
| 2 | 天線原理 | Antenna Theory | 選 | 3 | 3 | |
| 組 | 射頻電路設計 | RF Circuits Design | 選 | 3 | 3 | |
| | 高等射頻電路設計 | Advanced RF Circuits Design | 選 | 3 | 3 | |
| | 行動普適計算 | Mobile and Ubiquitous Computing | 選 | 3 | 3 | |
| | 微波元件 | Microwave Devices | 選 | 3 | 3 | |
| | 天線工程 | Antenna Engineering | 選 | 3 | 3 | |

| | 電波專論 | Advanced Topic on Electromagnetic Wave | 選 | 3 | 3 | |
|---|----------------|---|---|---|---|--|
| | 微波電路專論 | Advanced Topic on Microwave Circuits | 選 | 3 | 3 | |
| | 個人行動通訊 | Personal and Mobile Communications | 選 | 3 | 3 | |
| | 4G 無線通訊網路 | 4G Wireless Communication Networks | 選 | 3 | 3 | |
| | 濾波器與天線設計 實務 | Design Practice of Filter and Antenna | 選 | 3 | 3 | |
| | 物聯網與手機無線 控制 | Internet-of-Things and Wireless Control with Smart Phones | 選 | 3 | 3 | |
| | 其他 | Others | 選 | 3 | 3 | |
| | 半導體元件物理 | Semiconductor Physics and Devices | 選 | 3 | 3 | |
| | LED 製程與設計 | Manufacturing and Design of LED | 選 | 3 | 3 | |
| | 先進半導體製程技術 | Advanced Semiconductor Manufacturing Technology | 選 | 3 | 3 | |
| | 光電工程 | Optic-electrical Engineering | 選 | 3 | 3 | |
| | 光電材料與應用 | Electro-optical Materials and Applications | 選 | 3 | 3 | |
| | 新穎太陽能電池 | Novel Solar Cells | 選 | 3 | 3 | |
| | 光電元件 | Photonic Devices | 選 | 3 | 3 | |
| 丙 | 奈米材料與元件 | Nano Materials and Devices | 選 | 3 | 3 | |
| 組 | 材料科學專論 | Special Topics on Materials Science | 選 | 3 | 3 | |
| | 薄膜工程 | Thin Film Engineering | 選 | 3 | 3 | |
| | 功能性光電材料與 元件 | Functional Electro-optical Materials and Devices | 選 | 3 | 3 | |
| | 積體光學 | Integrated Optics | 選 | 3 | 3 | |
| | 半導體量測儀器分析 | Semiconductor Measurement and Instrument | 選 | 3 | 3 | |
| | 光電電磁學 | Optoelectronic Electromagnetic | 選 | 3 | 3 | |
| | 其他 | Others | 選 | 3 | 3 | |