

長庚大學 光電工程研究所碩士班 必選修科目表 (113學年度入學學生適用)

Curriculum of MS Program at the Graduate Institute of Electro-Optical Engineering, Chang Gung University
(Applicable to students admitted in 2024)

領域/組別	必/選修 Compul. / Elective Courses	科目名稱 Course Title	學分 Credits	開課 年級 Year	上學期 Fall Semester	下學期 Spring Semester	專業領域選 修 Professional elective courses	必/選修 Compul. / Elective Courses	科目名稱 Course Title	學分 Credits	開課 年級 Year	上學期 Fall Semester	下學期 Spring Semester	
共同必修 Compulsory courses	必修 Compulsory	學報討論 Seminar	4	一	2	2	基礎 專業選修 Fundamental Professional Elective Courses	選 Elective	固態物理 Solid State Physics	3	一	3		
	必修 Compulsory	專題研究 Seminar	2	一	1	1		選 Elective	干涉光學 Optical Interferometry and Diffraction	3	一	3		
	必修 Compulsory	學報討論 Seminar	4	二	2	2		選 Elective	晶體光學 Crystal Optics	3	一		3	
專業必修 Compulsory courses	必修 Compulsory	幾何光學 Geometric Optics	3	一	3			選 Elective	雷射物理 Laser Physics	3	一			3
	必修 Compulsory	光電工程概論 Principles of Electro- Optical Engineering	3	一	3			選 Elective	基礎群論 Basic Group Theory	3	一			3
	必修 Compulsory	半導體實驗 Semiconductor Experiments	1	一	1			選 Elective	材料分析 Material Analysis	3	一			3
	必修 Compulsory	光電實驗 Electro- Optical Laboratory	1	一		1								
學院共構 課程 College co- construct ed courses	選 Elective	英語口說與報告 (1)(2) English Speaking and Presentation(1)(2)	4	一	2	2	顯示器領域及 光學設計 Display Field and Optical Design	選 Elective	顯示器原理與應用 Principles and Application of Display	3	一	3		
	選 Elective	科技英文寫作(1)(2) English Technical Writing (1)(2)	2	一	1	1		選 Elective	光學精密量測 Optical Metrology	3	一			3
								選 Elective	液晶顯示器技術 Technology of the Liquid Crystal Display	3	一			3
共同選修 Elective	選 Elective	企業實習(1)(2) Industry Training(1)(2)	12	二	6	6								
							光電半導體領 域 Optoelectronic Semiconductor Field	選 Elective	光電元件與系統之電 性可靠度 Electrical reliability of optoelectronic	3	一	3		
								選 Elective	太陽能電池概論 Introduction to Solar	3	一			3
								選 Elective	固態光源 Solid Light Source	3	一			3
							生醫光電領域 Biomedical Optoelectronic s Field	選 elective	生醫感測 Biomedical Sensing	3	一	3		
								選 elective	微流體生物晶片技 術 Microfluidic Biochip Techology	3	一			3

1. 畢業學分：40學分。
 (1) 必修18學分(含共同必修10學分、專業必修8學分)。
 (2) 選修16分。
 (3) 論文6學分(通過學位考試並繳交通過審核論文後給予)。
 1. Graduation credits: 40
 (1) Credits for compulsory courses: 18
 (2) Credits for elective courses: 16
 (3) Credits for thesis completion: 6 (given after passing Graduate Degree Examination and submitting approved theses)
 2. 本所共同選修課程【企業實習(1)(2)】，至多承認為本所選修學分6學分。
 2. "Industry Training (1) and (2)", a maximum of 6 credits can be recognized as elective credits.

備註
Remark

3. 學院共構選修課程列入他系選修。
3. The co-constructed elective courses of the College of Engineering can be included in the elective courses from other departments.
4. 修習「記憶體專業學程」課程並完成指定學分者，得認為本所碩士班畢業學分，學生仍須修滿本所碩士班必修課程及論文(或技術報告替代論文)，符合本所碩士班畢業之要求。
4. Those who have completed the "Memory Program" courses and completed the designated credits can be recognized as the graduation credits of the master's program. Students still have to complete the required courses and thesis (or technical report to substitute the thesis) to meet the graduation requirements of the master's program.
- (1)修習「記憶體專業學程」之【企業實習(1)(2)】，可替代本所碩士班二年級學報討論，至多承認4學分。
- (1) Taking "Industry Training (1) and (2)" of the "Memory Program" can be used to replace the second year "Seminar" of the master's program, and a maximum of 4 credits can be admitted.
- (2)修習「記憶體專業學程」之【半導體元件製程與實務】，可替代本所碩士班必修課程【半導體實驗】，至多承認1學分。
- (2) Taking "Semiconductor device process and practices" of the "Memory Program" can replace the "Semiconductor Experiments" of the master's program, and a maximum of 1 credit can be admitted.
5. 須達英文畢業門檻方可畢業：依據「長庚大學工學院碩士班研究生英文能力檢測實施方案」實施。
5. According to the "English Proficiency Requirements for Graduate Students of the College of Engineering, Chang Gung University" all graduate students must meet the English proficiency requirements for graduation.
6. 非必選修科目表所列之科目，本國生至多承認工學院研究所開設之課程6學分。
6. A maximum of 6 credits can be admitted for elective courses from the Graduate Institutes of the College of Engineering.
7. 修業滿一年以上且成績優異學生可申請提早畢業，「學報討論」在學期間必修8學分，提前畢業者可免修「學報討論」，但總畢業學分仍須修足40學分。
7. During the study period, 8 compulsory credits for the Seminar must be completed. Those who graduate early may apply for exemption of "Seminar" course while the total 40 graduation credits are still required.
8. 外籍生修習院內外系所英語授課專業領域課程承認為畢業學分數，以畢業學分(不含論文6學分)之50%為上限，所修習之課程需經指導教授同意並經學術委員會審查通過方得承認為畢業學分，且本方案僅適用於經由外籍生管道入學之碩博士外籍生。
8. International students may take English-taught professional courses in the University. The credits will be counted as graduation credits, but no more than 50% of graduation credits (excluding the credits of master's thesis and "Seminars" courses). Such courses will be counted toward graduation credits with the approvals of advisor(s) and the Departmental Academic Committee. This policy is

所長簽章： _____