長庚大學 工業設計碩士班必選修科目表 (108學年度入學學生適用)
Courses Listed for Master of Science (MS) Degree Program in Industrial Design, Chang Gung University (for 2019 acadimic year)

領域／組別 Field/Program	必選修 Required/Elective	科目名稱 Course	授課時數 Class Hour	開課年級 Year	學分(上學期) Credit(1st semester)	學分(下學期) Credit(2nd semester)	備註 Remark
共同 Common	必 Required	論文導讀(1)(2) Special Topics in Thesis I/II	2(上學期)/2(上學期) 2(1st semester)/2(2nd semester)	1	1	1	1學分上課2小時 1 Credit, 2 Hour
共同 Common	必 Required	進階工業設計 Advanced Industrial Design	3	1	2		2學分上課3小時 2 Credit, 3 Hour
共同 Common	必 Required	研究方法 Research Methods	2	1	1		1學分上課2小時 1 Credit, 2 Hour
共同 Common	必 Required	高等工業設計 Advance Industrial Design	3	1		2	2學分上課3小時 2 Credit, 3 Hour
共同 Common	必 Required	設計研究 Design Studies	2	1		1	1學分上課2小時 1 Credit, 2 Hour
共同 Common	必 Required	設計實務 Design Practice	0	1	0		
共同 Common	必 Required	論文/專案 Thesis/Program	6	2		6	
設計實務組(設計研究組選修) Design Practice(Elective Course of Design Study)	必 Required	創新產品設計與開發 Innovative Product Design and Development	6	2	3		3學分上課6小時 3 Credit, 6 Hour
設計研究組(設計實務組選修) Design Course(Elective Practice of Design Study)	必 Required	論文專論(1)(2) Special Topics in Thesis I/II	2(上學期)/2(上學期) 2(1st semester)/2(2nd semester)	2	1	1	1學分上課2小時 1 Credit, 2 Hour
共同 Common	選 Elective	創意思考與方法 Creative Thinking and Method	3	1	3		
共同 Common	選 Elective	國際設計交流 International Design Attachment Program	8	1	8		
共同 Common	選 Elective	智慧生活健康促進 Smart Life for Health Promotion	3	1	3		
設計研究 Design Research	選 Elective	福祉社群研究 Disadvantaged Minority People Study	3	1	3		
設計研究 Design Research	選 Elective	使用性工程 Usability Engineering	3	1	3		
設計研究 Design Research	選 Elective	愉悅設計研究 Pleasurable Design Study	3	1	3		
設計研究 Design Research	選 Elective	感性意象研究 Sensational Product	3	1		3	
設計研究 Design Research	選 Elective	福祉設計專論 Disadvantaged Minority People Study	3	1		3	
設計研究 Design Research	選 Elective	統計應用 Statistical Applications	3	1		3	
設計研究 Design Research	選 Elective	使用者調查與溝通 User Survey and Communication	3	1		3	
設計實務 Design practice	選 Elective	全方位設計 Universal Design	3	1		3	
設計實務 Design practice	選 Elective	跨領域高齡產品創新設計 Innovative Product Design for Seniors – A Cross-disciplinary	3	1	3		

*設計實務組畢業總學分：共31學分(含必修課17學分(實務組-創新產品設計與開發為必修，論文專論(1)(2)為選修)，選修課14學分)，得跨年級選課。
The minimal requirement for Design Practice Program: 31 credits, including 17 compulsory course credits and 14 elective course credits." Innovative Product Design and Development" is required and "Special Topics in Thesis I/II" are elective. Students can select courses freely during their study periods.

*設計研究組畢業總學分：共30學分(含必修課16學分(研究組-論文專論(1)(2)為必修，創新產品設計與開發為選修)，選修課14學分)，得跨年級選課。
The minimal requirement for Design Research Program: 30 credits, including 16 compulsory course credits and 14 elective course credits. "Special Topics in Thesis I/II" are required and "Innovative Product Design and Development" is elective. Students can select courses freely during their study periods.

備註 Remark	*研究生可由設計研究組或設計實務組兩種型式中選擇一種合適自己生涯規劃之路徑畢業。 Post graduate students, based on their career planning, can choose their own pathway towards their graduation – "Design Research Program" or "Design Practice Program".
	*國際設計交流課程：一年級選修，可抵一上進階工業設計，論文導讀(一)，研究方法，自由選修3學分。 二年級選修，可抵二上論文專論（一），自由選修3學分。 International Design Program: to select this course during 1st year, the credit can be equated to "Advanced Industrial Design", "Special Topics in Thesis I", "Research Methods" and 3 credits from elective courses for the 1st semester. To select this course during 2nd year, the credit can be equated to "Special Topics in Thesis II" and 3 credits from elective courses for the 3rd semester.
	*若選修外所課程，需經系上課委會審核通過，始可列入畢業學分。 It should be approved by department course committee if students undertake courses from the other department. Otherwise, the credit cannot be included their graduation.*碩士班學生可選修外系課程6學分，列入畢業學分，需要系主任或指導教授簽名同意。
	*設計實務組課程:研究生需參與暑期設計實務組八週課程才能畢業。 For Design Practice Program: students need to participate an 8 weeks design practice course during summer vacation before graduation.
	*新生非本科系學生，需下修大學部系上指定之兩門課。 For students who are not major in Industrial Design need to undertake two undergraduate courses appointed by Industrial Design Department.
	*針對外籍生，可跨院系選課且納入畢業學分(上限9學分，須由系認定可跨院系選修之課程)。 For international students, elective courses cross colleges and departments can be included in their graduation credits. 9 credits are the maximum and verification is needed by Industrial Design Department.
	*本碩班訂有英文畢業門檻，須達系訂標準方可畢業，見碩士班修業要點。