長庚大學 智慧醫療創新碩士學位學程 必選修科目表 (113學年度入學學生適用)
Course List for Master of Science Degree Program in Innovation for Smart Medicine
Chang Gung University (for students admitted in Fall 2024)

模組 module	必/選 (R/E)	科目名稱 Course Name	年級 Year	學分 Credit	上學期 1st	下學期 2nd	授課教師 Instructor	說明 Remarks
必修 Required	必 (R)	智慧醫材軟體創新 Smart Medical Material Software Innovation	1	3	3		陳嶽鵬	與管理研究所博士班合開 Offered by Graduate Institute of Management
	必 (R)	智慧醫療專題：場域應用 Smart Healthcare Topic: Field Applications	1	2	2		裴育晟	與管理研究所博士班合開 Offered by Graduate Institute of Management
	必 (R)	智慧醫療創新發展專題討論 Special Topics on the Progress of Innovative Healthcare Advancements	1	2		2	郭昶甫	與管理研究所博士班合開 Offered by Graduate Institute of Management
創新設計 與管理 Innovative design & Management	選 (E)	醫療器材設計與開發 Medical Device Design and Development	1	3	3		黃建嘉	
	選 (E)	智慧醫材法規及風險管理 Regulations and Risk Management for Smart Medical Devices	1	3	3		許建隆	
	選 (E)	研究方法(1) Research Methods (1)	1	3	3		蕭文龍	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E)	專題研討(1) Research Seminar I	1	2	2		鄧景宜	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E)	設計管理專題 Topics in Design Management	1	3	3		邱文科	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E)	創新產品設計與開發 Innovative Product Design and Development	1	3		3	曾俊儒	
	選 (E)	資訊安全政策與管理 Policies and Management of Information Security	1	3		3	許建隆	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E)	研究方法(2) Research Methods(2)	1	3		3	許光宏	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E)	專題研討(2) Research Seminar II	1	2		2	鄧景宜	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E)	混合方法研究設計與應用 Mixed method: Research design and application	1	3		3	蕭文龍	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E)	決策科學與應用 Decision Science and Applications	1	3		3	陳亭羽	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E)	創意思考與方法 Creative Thinking and Method	~~葉哲實~~	3	3		蔡采璇	~~與工設系碩士班合開~~ ~~Offered by Master of Industrial Design~~

類別	課程名稱					授課教師	備註
選 (E)	科學研究與論文發表 Scientific Research and Paper Publication	2	2	2		鄧景宜	與管理研究所博士班合開 Offered by Graduate Institute of Management
選 (E)	管理特論 (1)	2	3	3		張錦特	與管理研究所博士班合開 Offered by Graduate Institute of Management
選 (E)	統計特論 Topics in Statistics	2	3	3		棗厥庸	與管理研究所博士班合開 Offered by Graduate Institute of Management
選 (E)	生產與作業管理 Production and Operations Management	2	3	3		古思明	與管理研究所博士班合開 Offered by Graduate Institute of Management
選 (E)	生物資訊分析 Bioinformatics analysis	2	2	2		鄧致剛	與生物醫學所博士班合開 Graduate Institute of Biomedical Sciences
選 (E)	生物資訊分析實作 Pratical Bioinformatics	2	1	1		鄧致剛	與生物醫學所博士班合開 Graduate Institute of Biomedical Sciences
選 (E)	生技健康產業經營策略 Business strategy for the biotech and health industries	2	2	2		廖珮茹	與健康照護產業碩士學位學程合開 Offered by Master Program of Health Care Industry
選 (E)	醫療器材產品化策略 Medical Device Productization Strategy	2	3		3	黃建嘉	
選 (E)	生醫新創產業講座 Biomedical Startup Industry Lecture	2	2		2	郭昶甫	
選 (E)	管理特論 (2) Advanced Topics in Management I	2	3		3	張錦特	與管理研究所博士班合開 Offered by Graduate Institute of Management
選 (E)	國際學術溝通與交流 International Scholarly Communication	2	2		2	鄧景宜	與管理研究所博士班合開 Offered by Graduate Institute of Management
選 (E)	創新設計管理與實務 Innovation Design Management and Practice	2	3		3	邱文科	與管理研究所博士班合開 Offered by Graduate Institute of Management
選 (E)	生技健康產業財務管理 Financial Management of Biotech and Health Industry	2	2		2	陳佰弦	與健康照護產業碩士學位學程合開 Offered by Master Program of Health Care Industry
健康照護管理 Healthcare management	選 (E) 職業病概論與職業病領域創新研究 Occupational Medicine and Current Researches	1	3	3		曹又中	
	選 (E) 健康照護與社會 Healthcare and Society	1	3	3		盧瑞芬	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E) 醫療產業跨領域協同創新設計應用 The Application of Interdisciplinary Collaborate Innovation Design for Medical Industries	1	3	3		梁又照	與管理研究所博士班合開 Offered by Graduate Institute of Management
	選 (E) 醫療政策與政治 Health Policy and Politics	1	2	2		林欣柔	與醫管系碩士班合開 Offered by Health Care Management
	選 (E) 健康經濟學 Health Economics	1	3		3	盧瑞芬	與管理研究所博士班合開 Offered by Graduate Institute of Management

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選(E)	創新設計思維在醫療產業的應用 The Application of Innovation Design Thinking to Medical Industry	1	3		3	梁又照	與管理研究所博士班合開 Offered by Graduate Institute of Management
選(E)	健康照護與設計思考 Design Thinking in Health Care	1	2		2	葉婷婷	與健康照護產業碩士學位學程合開 Offered by Master Program of Health Care Industry
選(E)	老年周全性照護 Comprehensive Geriatric Care	1	2		2	林佩欣	與健康照護產業碩士學位學程合開 Offered by Master Program of Health Care Industry
選(E)	活動設計與輔助科技產品 Activity Analysis and Applications of AssistiveTechnology	1	2		2	黃湘涵	與健康照護產業碩士學位學程合開(雙數學年度開設) Offered by Master Program of Health Care Industry
選(E)	健康經濟學專題 Topics in Health Economics	2	3	3		盧瑞芬	與管理研究所博士班合開 Offered by Graduate Institute of Management
選(E)	職業醫學專題研討 Workshop of Occupational and Environmental Medicine	2	3		3	曹又中	
選(E)	健康與資訊系統理論 Health and Information Systems Theories	2	3		3	許建隆	與管理研究所博士班合開 Offered by Graduate Institute of Management
選(E)	健康照護管理專題 Topics in Healthcare Management	2	3		3	邱月暇	與管理研究所博士班合開 Offered by Graduate Institute of Management
選(E)	輔具之產品創新設計策略與計畫 Design Strategy and Innovation for Assistive Technology Products	2	3		3	蔡采璇	與管理研究所博士班合開 Offered by Graduate Institute of Management
選(E)	長期照護管理專題 Special Topics in Long-term Care Management	1	2		2	王惠玄	與醫管系碩士班合開 Offered by Master of Healthcare Management
4智慧運算 Intelligent Computing 選(E)	影像處理 Image Processing	1	3	3		萬書言	與資管系碩士班合開 Offered by Master of Information Management
選(E)	深度學習概論 Introduction to Deep Learning	1	2		2	高煥堂	
選(E)	機器學習與其醫學應用 Machine Learning and Its Medical Applications	1	3		3	陳嶽鵬	
選(E)	物聯網 Internet of Things	1	3		3	吳世琳	與資工系碩士班合開 Offered by Master of Computer Science
選(E)	人工智慧在自然語言處理與應用 Artificial Intelligence in Natural Language Processing and Applications	2	3		3	陳嶽鵬	
選(E)	人工智慧分類專題	2	3		3	萬書言	與管理研究所博士班合開

	選 (E)	The Classification Topics in Artificial Intelligence 深度學習應用專題 Application Project for Deep Learning	2	2		2	林詩偉	Offered by Graduate Institute of Management 與管理研究所博士班合開 Offered by Graduate Institute of Management
備註 Remarks		1. 碩士學位畢業學分：30學分						

1. 碩士學位畢業學分：30學分

   (1) 必修：7學分

      Credits from required courses: 13credits

   (2) 選修：17學分；必須選修至少二個模組，可跨年級選課

      Credits from elective courses: 19 credits from at least three elective modules, at least 2 credits from each of the chosen elective modules

   (3) 論文/技術報告：6學分，於通過學位口試後授予

      Six thesis/technical report credits are awarded upon completion of oral defence

2. 須達英文畢業門檻方可畢業：詳見入學年度之修業規則。

   Students are required to pass the English certification standard to obtain graduation qualifications.

3. 其他：其他未列入必選修科目表本校研究所課程最多承認10學分，除非事前經學程負責人書面同意

   At most 10 graduate level credits taken from other CGU departments/programs not listed here can be considered towards graduation credits, unless with