長庚大學 智慧醫療創新碩士學位學程 必選修科目表 (112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 2023)

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	
	必 (R)	智慧醫療專題：場域應用 Smart Healthcare Topic: Field Applications	1	3	3		裴育晟	
	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	
創新設計 Innovative design	選 (E)	醫療器材設計與開發 Medical Device Design and Development	1	3	3		黃建嘉	
	選 (E)	生醫新創產業講座 Biomedical Startup Industry Lecture	1	2		2	陳彥瑜	
	選 (E)	醫療器材產品化策略 Medical Device Productization Strategy	1	3		3	黃建嘉	
	選 (E)	福祉設計專論 Disadvantaged Minority People Study	1	3		3	蔡采璇	與工業設計系碩士班合開 Offered by Master of Industrial Design
	選 (E)	創新產品設計與開發 Innovative Product Design and Development	1	3		3	曾俊儒	
	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
創業管理 Innovative management	選 (E)	生技健康產業經營策略 Business strategy for the biotech and healthindustries	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)	生技健康產業財務管理 Financial Management of Biotech and HealthIndustry	1	2		2	棗厥庸	與健康照護產業碩士學位學程合開 Offered by Master Program of Health Care Industry

		課程名稱					教師	備註
	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)	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)	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)	創新設計管理與實務 Innovation Design Management and Practice	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)	調查研究法 Survey Research Methods	1	3		3	鄧景宜	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)	創意思考與方法 Creative Thinking and Method	1	3	3		蔡采璇	與工設系碩士班合開 Offered by Master of Industrial Design
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)	職業醫學專題研討 Workshop of Occupational and Environmental Medicine	2	3		3	曹又中	
	選 (E)	老年周全性照護 Comprehensive Geriatric Care	2	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)	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)	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
	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)	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
	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)	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	輔具之產品創新設計策略與計畫	2	3		3	蔡采璇	與管理研究所博士班合開

	(E)	Design Strategy and Innovation for Assistive Technology Products						Offered by Graduate Institute of Management
智慧運算 Intelligent Computing	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)	資訊安全政策與管理 Policies and Management of Information Security	1	3		3	許建隆	
	選 (E)	機器學習與其醫學應用 Machine Learning and Its Medical Applications	2	3		3	陳嶽鵬	
	選 (E)	深度學習概論 Introduction to Deep Learning	1	2		2	高煥堂	
	選 (E)	深度學習應用專題 Application Project for Deep Learning	2	2	2		林詩偉	
	選 (E)	遠端智慧照護 Remote Intelligent Care	1	3	3		吳世琳	
	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	
	必 (R)	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
	必 (R)	研究方法(2) Research Methods(2)	1	3		3	蕭文龍	與管理研究所博士班合開 Offered by Graduate Institute of Management
	必 (R)	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)	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)	人工智慧分類專題 The Classification Topics in Artificial Intelligence	1	3		3	萬書言	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 (含畢業論文/技術報告6學分) 　必修：13學分；選修17學分，可跨年級選課。 　Graduation credits: 30 credits, including 6 credits from writing a thesis/technical report 　(1) 必修：7學分 　　　Credits from required courses: 5 credits 　(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