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

	選 (E)	科學研究與論文發表	2	2	2		鄧景宜	與管理研究所博士班合開 Offered by Graduate Institute of Management
		Scientific Research and Paper Publication						,
	選 (E)	管理特論 (1)	2	3	3		張錦特	與管理研究所博士班合開
		Advanced Topics in Management I						Offered by Graduate Institute of Management
	選 (E)	統計特論	2	3	3		棗厥庸	與管理研究所博士班合開
		Topics in Statistics						Offered by Graduate Institute of Management
	選 (E)	生產與作業管理	2	3	3		古思明	與管理研究所博士班合開
		Production and Operations Management						Offered by Graduate Institute of Management
	選 (E)	生物資訊分析	1	2	2		鄧致剛	與生物醫學所博士班合開
		Bioinformatics analysis						Graduate Institute of Biomedical Sciences
	選 (E)	生物資訊分析實作	1	1	1		鄧致剛	與生物醫學所博士班合開
		Pratical Bioinformatics						Graduate Institute of Biomedical Sciences
	選 (E)	生技健康產業經營策略	2	2	2		廖珮茹	與健康照護產業碩士學位學程合開
		Business strategy for the biotech and						Offered by Master Program of Health Care Industry
		healthindustries						
	選 (E)	醫療器材產品化策略	1	3		3	黄建嘉	
	~ (-)	Medical Device Productization Strategy		-			7,70,11	
	選 (E)	生醫新創產業講座	2	2		2	郭昶甫	
	~ (-)	Biomedical Startup Industry Lecture					47 32 113	
	選 (E)	管理特論 (2)	2	3		3	張錦特	與管理研究所博士班合開
	~ (-)	Advanced Topics in Management II					3,000-11-11	Offered by Graduate Institute of Management
	選 (E)	國際學術溝通與交流	2	2		2	鄧景宜	與管理研究所博士班合開
		International Scholarly Communication					, ,,,-	Offered by Graduate Institute of Management
	選 (E)	創新設計管理與實務	1	3		3	邱文科	與管理研究所博士班合開
		Innovation Design Management and Practice					, -,,	Offered by Graduate Institute of Management
	選 (E)	生技健康產業財務管理	2	2		2	陳佰弦	與健康照護產業碩士學位學程合開
		Financial Management of Biotech and					,	Offered by Master Program of Health Care Industry
		HealthIndustry						
健康照護	選 (E)	職業病概論與職業病領域創新研究	1	3	3		曹又中	
管理	~ (2)	Occupational Medicine and Current Researches	1				H J	
Healthcare	選 (E)	健康照護與社會	1	3	3		盧瑞芬	與管理研究所博士班合開
management	₹ (E)	Healthcare and Society	1	5			/ <u>m</u> - m / /	Offered by Graduate Institute of Management
in in its and	選 (E)	醫療產業跨領域協同創新設計應用	1	3	3		梁又照	與管理研究所博士班合開
	~ (2)	The Application of Interdisciplinary		-)(· • · · · · · · · · · · · · · · · · ·	Offered by Graduate Institute of Management
		CollaborateInnovation Design for Medical						official by Graduate Institute of Management
		Industries						
	選 (E)	醫療政策與政治	1	2	2		林欣柔	與醫管系碩士班合開
		Health Policy and Politics						Offered by Health Care Management
	選 (E)	健康經濟學	1	3		3	盧瑞芬	與管理研究所博士班合開
	`	Health Economics						Offered by Graduate Institute of Management

	選 (E)	創新設計思維在醫療產業的應用	1	3		3	梁又照	與管理研究所博士班合開
		The Application of Innovation Design Thinking to Medical Industry						Offered by Graduate Institute of Management
	選 (E)	健康照護與設計思考	1	2		2	葉婷婷	與健康照護產業碩士學位學程合開
		Design Thinking in Health Care						Offered by Master Program of Health Care Industry
	選 (E)	老年周全性照護	1	2		2	林佩欣	與健康照護產業碩士學位學程合開
		Comprehensive Geriatric Care						Offered by Master Program of Health Care Industry
	選 (E)	活動設計與輔助科技產品	1	2		2	黄湘涵	與健康照護產業碩士學位學程合開(雙數學年度開
		Activity Analysis and Applications of						設)
		AssistiveTechnology						Offered by Master Program of Health Care Industry
	選 (E)	健康經濟學專題	2	3	3		盧瑞芬	與管理研究所博士班合開
		Topics in Health Economics						Offered by Graduate Institute of Management
	選 (E)	職業醫學專題研討	1	3		3	曹又中	
		Workshop of Occupational and Environmental Medicine						
	選 (E)	健康與資訊系統理論	2	3		3	許建隆	與管理研究所博士班合開
		Health and Information Systems Theories						Offered by Graduate Institute of Management
	選 (E)	健康照護管理專題	2	3		3	邱月暇	與管理研究所博士班合開
		Topics in Healthcare Management						Offered by Graduate Institute of Management
	選 (E)	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
		Design Strategy and Innovation for Assistive Technology Products						Offered by Graduate Institute of Management
	選 (E)	長期照護管理專題	1	2		2	王惠玄	與醫管系碩士班合開
		Special Topics in Long-term Care						Offered by Master of Healthcare Management
		Management						
4智慧運算	選 (E)	影像處理	1	3	3		萬書言	與資管系碩士班合開
Intelligent Computing		Image Processing						Offered by Master of Information Management
	選 (E)	深度學習概論	1	2		2	高煥堂	
		Introduction to Deep Learning						
	選 (E)	機器學習與其醫學應用	1	3		3	陳嶽鵬	
		Machine Learning and Its Medical Applications						
	選 (E)	物聯網	1	3		3	吳世琳	與資工系碩士班合開
		Internet of Things						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 The Classification Topics in Artificial Intelligence	2	3		3	萬書言	與管理研究所博士班合開 Offered by Graduate Institute of Management		
	選 (E)	深度學習應用專題 Application Project for Deep Learning	2	2		2	林詩偉	與管理研究所博士班合開 Offered by Graduate Institute of Management		
備註	1. 碩士學位畢業學分:30學分									
Remarks	ks (1) 必修:7學分									
	Credits from required courses: 7credits (2) <u>選修:17學分</u> ;必須選修至少二個模組,可跨年級選課 Credits from elective courses: 17 credits from at least three elective modules, at least 2 credits from each of the chosen elective modules									
	 (3) <u>論文/技術報告:6學分</u>,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 written approval from the 									