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②國玄東華大學

課 綱 Course Outline 海洋生物研究所碩士班生物科技組

中文課程名稱

Course Name in Chinese	水生生物冷凍保存					
英文課程名稱 Course Name in English	Cryopreservation of	aquatic speci	es			
科目代碼 Course Code	MBT_56820	班 別 Degree	碩士班 Master's			
修別 Type	選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite						
		課程目標 se Objectives				
本所為海洋生物研究所解相關水生生物冷凍保			K生物種冷凍 	保存現況的認識	,進而瞭	
系教育目標 Dept.'s Education Objectives						
1 培育海洋生命科學領域之研究人才 Nurture an international outlook of marine biotechnology research talent.						
2 培養基礎理論與應用研究兼備之人才 Cultivation of biotechnology industry specific skills and research talent.						
3 培養具國際觀之海	洋生物科技研究人才 arine life sciences	<u> </u>				
1 /1 1	所需之技術或研究人才 n both theory and ap		n talent.			
5 培養團隊合作能力 Develop teamwork	之研究人才 skills of research	talent.				
系專業能力 			課程目標 力相關性 Correlat between (
Basic Learning Outcomes				Objective Dept.'s Objective	Education	
A 具備海洋生命科學 Basic knowledge	的基礎知識 of marine life scien	ce is needed.				
B 具備獨立、創新及執行研究的能力 Independent innovation and the research ability are needed.						
具備邏輯思考、問題分析與問題解決的能力 C Logical thinking, problem analysis and problem-solving abilities are needed.						

D	具備領導、溝通協調與團隊合作的能力 Good team communication, coordination and leadership skills are needed.				
Е	具備國際視野以及外語溝通的能力 International vision and ability to communicate in foreign languages.				
F	善善善善善善善善善善善善善善善善善善善善善善善善善善善善善善善善善善善善善				
G	對於學術倫理及專業倫理有正確的認知與堅持 G For professional ethics and academic responsibility have a correct understanding and persistence.				
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated					
課程大綱					
	Course Outline				
Introduction					
Applications of cryopreservation					
Cryopreservation of fresh water fish (I)					
Cryopreservation of fresh water fish (II)					
1 -	Cryopreservation of marine fish (I)				
Cryopreservation of marine fish (II)					
Ornamental fish cryopreservation					
Review and discussion					
Invertebrate cryopreservation (I)					
	Invertebrate cryopreservation (II)				
	Coral cryopreservation Plankton cryopreservation				
1	Revies and discussion				
	The effect of cryopreservation on genome (I)				
	The effect of cryopreservation on genome (II)				
1	The effect of cryopreservation on genome (III)				
資源需求評估(師資專長之聘任、儀器設備的配合・・・等) Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)					
カカ 東 よ 1 和 協 プー ド パーキャネ					
	課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods				
7田 4					
誅オ	呈之教學方式以講授為主,專題討論為輔。				

其他

Miscellaneous