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## ②国玄東華大學

## 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		遺傳保種						
英文課程名稱 Course Name in English		Genetic Conservation						
科目代碼 Course Code		MBT_56790	班 別 碩士班 Degree 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 Course Objectives								
本所為海洋生物科技研究所,本課程授課目標在於提供學生海洋生物遺傳保種及復育基礎知識的認識,並建立學生實質海洋生態資源保育的觀念								
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 Cultivation of marine life sciences research talent.							
4	培養生物科技產業所需之技術或研究人才 Basic training in both theory and applied research talent.							
5	培養團隊合作能力之研究人才 Develop teamwork skills of research talent.							
	課程目標與系專 力相關性 《A專業能力 《Basic Learning Outcomes Basic Learning Outcomes 》 Objectives and Dept.'s Educa					ion Course es and		
	具備海洋生命科學	的基礎知識			Objective			
A	Basic knowledge	Basic knowledge of marine life science is needed.						
В	具備獨立、創新及執行研究的能力 Independent innovation and the research ability are needed.							
С	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	善用資訊科技進行資訊蒐集、資料分析與統整 Use of information technology for information collection, analysis and integration.				
G	對於學術倫理及專業倫理有正確的認知與堅持 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 Outli

Course Outline

Fundamental Aspects

Long-Term Ex Situ Conservation of Biological Resources

Supporting Measure in Species Conservation:

The Scientific Basis for Tissue Banking

Tissue Preservation:

Fundamental Issues for Cell-Line Banks in Biotechnology

Preservation of Fungi and Yeasts

Conserving Algal and Plant Diversity

The frozen Ark

Coral Conservation

Marine Protected Area for Whales, Dolphins and Porpoises

Cryobiology of Gametes and the Breeding of Domestic Animals

Culture and Conservation of Marine Ornamental Reef Fish

Conservation of Marine Invertebrates

International Framework for the Protection of the Marine Environment

The Particularly Sensitive Sea Area Concept

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.)

無

## 課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

課程之教學方式以講授為主,專題討論為輔

其他

Miscellaneous