朝陽科技大學 094學年度第1學期教學大綱
Introduction of Biomaterials 生物材料導論

當期課號	1621	**Course Number**	1621
授課教師	賴龍山	**Instructor**	LAI,LONG SHAN
中文課名	生物材料導論	**Course Name**	Introduction of Biomaterials
開課單位	應用化學系(四日)二A	**Department**	
修習別	必修	**Required/Elective**	Required
學分數	2	**Credits**	2
課程目標	本課程主要的目的是要向同學簡介各種來自生物所衍生材料之性質或原理與應用，例如膠原蛋白，幾丁質/幾丁聚醣，玻璃糖醛酸(或稱透明質酸)，生物可分解性塑膠，生物晶片等相關領域。此外，由微生物代謝所產生之工業用酵素，抗生素，紫杉醇也在本課程討論之列。	**Objectives**	This course is designed to provide an iroduction of bionmaterials and their applications. We intend to give an overview of these products. The following items will be covered in class : 1.collagen 2 . chitin / chitosen 3. hyaluronic acid 4 . biochips 5 . biodegradable plastics Besides , the industrial enzymes , antibiotics , taxol derived from cell metabolism will also be discussed to our utmost .
教材	1.生物產業技術概論（吳文騰教授主編）全華科技圖書（股）公司　註：此爲期中考後用書 2.Class notes. 3.上屆學長姐之期中考與期末考之考題(當作參考).	**Teaching Materials**	
成績評量方式	本課程由簡宣裕老師與賴龍山老師共同負責（分成期中考之前與之後），大致上兩人各擔任課程一半之成績考核,詳細的上課方式擬在開學後第一次上課宣佈),BONUS (以10%爲上限)爲額外加分其依據是上課點名與參與課堂討論.	**Grading**	The course grading is mainly based on the performance in the class time before and after the mid-term examinatin (50% for each part), meanwhile, this course is substantially devided as two parts, monitored by two instructors. Details regarding the course grading and the progress of this course shall be announced in the first class of Biomaterials. Besides, bonus credits (10% in the maximum) will be given to those attending the class and joining the discussions.
教師網頁	_		
教學內容	本課程主要的目的是要向同學簡介各種來自生物所衍生材料之性質或原理與應用,例如膠原蛋白,幾丁質/幾丁聚醣,玻璃糖醛酸(或稱透明質酸),乳酸,乙醇,維生素C,生物可分解性塑膠,生物晶片等相關領域.此外,由微生物代謝所產出之工業用酵素,抗生素,紫杉醇也在本課程討論之列.	**Syllabus**	This course is designed to provide an iroduction of bionmaterials and their applications. We intend to give an overview of these products. The following items will be covered in class: 1.collagen 2.chitin/chitosen 3.hyaluronic acid 4.lactic acid 5.ethanol 6.ascorbic acid 7.biochips 8.biodegradable plastics Besides, the industrial enzymes, antibiotics, taxol derived from cell metabolism will also be discussed to our utmost.

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