## 朝陽科技大學 093學年度第1學期教學大綱 Science and Technology in Modern Life 科技與生活

當期課號	9808	Course Number	9808
授課教師	陳靖棻	Instructor	CHEN,CHIN FUN
中文課名	科技與生活	Course Name	Science and Technology in Modern Life
開課單位	生活智能類(二進)	Department	
修習別	選擇必修	Required/Elective	Topics in Life, Society, and Science
學分數	2	Credits	2
課程目標	隨著科技的發展,人類的生活形態不 斷地轉變。本課程將介紹物理、化學 與生物等科技之基本觀念、在人類文 明中所扮演之角色以及在自然生態、 環境、社會、健康…等層面所造成之 影響與衝擊,期待同學能以理性與人 性爲出發點,培養出一個科學的人生 觀。	Objectives	Students are introduced to the study of scientific and technological developments in human life. They should develop their understanding of construction, manufacturing, energy/transportation and information/communication as well as biotechnology and nanotechnology. Students should be able to comprehend physical, chemical and biological concepts and to understand the impacts brought by the science and technology on environment and human society.
教材	自編講義。	Teaching Materials	·
成績評量方式	測驗(30%)、上台報告(30%)、 平時成績(出席與討論)(40%)	Grading	Quiz (30%) · oral presentation (30%) · class performance (attendance and participation) (40%)
教師網頁	http://www.cyut.edu.tw/~argentina		
教學內容	[課程目標]隨著科技的發展,人類介紹物理、人類介紹物理生物等科技之為與生物等科技之角康、人類文化類文、是實際,與生物所別與之,與與生物所別與之,與與生物所別與之,與與主,與與主,與與主,與與主,與與主,與與主,以之,與與其一。以為於不可,以為於不可,以為於不可,以為於於不可,以為於於於,以為於於於,以為於於於,以為於於於,以為於於於,以為於於於,以為於於於於,以為於於於於於於於於	Syllabus	[Objectives]Students are introduced to the study of scientific and technological developments in human life. They should develop their understanding of construction, manufacturing, energy/transportation and information/communication as well as biotechnology and nanotechnology. Students should be able to comprehend physical, chemical and biological concepts and to understand the impacts brought by the science and technology on environment and human society. [Syllabus]  1. Technology and human society. [Syllabus]  1. Technology: construction, manufacturing, energy/transportation and information/communication 3. Technology chronology 4. Construction and manufacturing: materials, machines and industries 5. Energy and transportation: fire, water, wind, petroleum and petrochemical industries 6. Information and communication: data, information, management and communation 7. Pollution: soil, water and air 8. Diseases and population 9. Ecological impacts 10. biotechnology: DNA, genes and DNA recombination 11. Microorganisms, plants and biotechnology 12. Animals and biotechnology: transgenic animals and clones

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	13. Clinical medicine and	
	biotechnology: sterility, obese genes,	
	AIDS,	
	14. Nano-material and its applications	

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