## 朝陽科技大學 097學年度第1學期教學大綱 Green Architecture 綠建築

當期課號	7712	Course Number	7712
授課教師	郭柏巖	Instructor	KUO,PO YEN
中文課名	綠建築	Course Name	Green Architecture
開課單位	建築及都市設計研究所碩士在職專班 二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	提昇建築在社會中的領導地位,並順應世界永續建築的發展,本課將研討美國綠建築指標之真體!在室內環境、洪水處置與節能設計上,充分運用設計策略來達到環境科技與生態保育的互動與整合。	Objectives	Recent successful public acceptance of the LEED (Leadership in Energy and Environmental Design) rating system has generated vast interests on specific issues such as indoor air quality, storm water management etc represent the cutting edge of environmental technology and ecological concern in architecture. These concerns expand our vision to the impact that construction industry has on health of the planet, and focus our attention on the health problem associated with the contemporary built environment. Future architects will need to acquire expertise to address effectively these issues on all aspects of design.  This class will offer a detailed introduction to issues of human health and environmental sustainability in architectural design. The course will consist of a combination of lectures, seminar discussions of assigned investigations and readings and short analysis of architectural design outcomes and performances. The course will be oriented toward achieving a basic level of competence of technical and ecological literacy relevant to design applications, and will also encourage students to explore and investigate subjects of their interests to built up their knowledge and to produce a guideline for sustainable design.  (1)Architecture without architects,
教材	Bernard Rudofsky。被建築使遺忘的建築,林憲德譯 (2)建築風土與節能設計亞熱帶氣候的建築節能計畫, 林憲德, 1997, 詹氏書局 (3) 熱濕氣候的綠色建築計畫, 林憲德, 1996, 詹氏書局 (4)城鄉生態, 林憲德, 1999, 詹氏書局 (5)Solar Power (The evaluation of sustainable Architecture) [Prestel] (6)DWELLINGS(THE VERNACULAR HOUSE WORLDWID), OLIVER,PAUL[PHAIDON PRESS] (7)Green Buildings Pay, B. Edwards, 1998, London: E & FN Spon. (8)Green Architecture: Design for an Energy-Conscious future, Brenda and R. Valve, 1991, London: Thames and Hudson Ltd. (9)Energy and Environment in Architecture: A Technical Design	Teaching Materials	Bernard Rudofsky。被建築使遺忘的建築,林憲德譯(2)建築風土與節能設計亞熱帶氣候的建築節能計畫, 林憲德, 1997, 詹氏書局(3) 熱濕氣候的綠色建築計畫, 林憲德, 1996, 詹氏書局(4)城鄉生態, 林憲德, 1999, 詹氏書局(5)Solar Power (The evaluation of sustainable Architecture) [Prestel](6)DWELLINGS(THE VERNACULAF HOUSE WORLDWID), OLIVER,PAUL[PHAIDON PRESS](7)Green Buildings Pay, B. Edwards, 1998, London: E & FN Spon. (8)Green Architecture: Design for an Energy-Conscious future, Brenda and R. Valve, 1991, London: Thames and Hudson Ltd. (9)Energy and Environment in Architecture: A Technical Design

	Guide, N. Baker and K. Steemers, 2000, London: E & FN Spon. (10)Architectural Design for Tropical Regions, G. Salmon, 1999, New York: Wiley. (11)美國LEED官方網站: http://www.usgbc.org/ (1)平時成績(20%)(2)期中考(30%)(3)期末報告(50%)	Grading	Guide, N. Baker and K. Steemers, 2000, London: E & FN Spon. (10)Architectural Design for Tropical Regions, G. Salmon, 1999, New York: Wiley. (11)美國LEED官方網站:http://www.usgbc.org/ (1)Attendance 20% (2)Mid-term 30% (3)Final-Report 50%
教師網頁	http://163.17.25.11/discuz/ 本課程有四大主題:		There are four topics in this lecture:
教學內容	第一个紹:美國與台灣的綠建築系統、名灣綠建築九大指標的評估與案例及單元介紹:建築採光與照明設計、單元介紹:建築採光與照明設計、單元介紹:建築與生命週期分析,第三、中國大學與大學與大學與大學與大學與大學與大學與大學與大學與大學與大學與大學與大學與大	<b>Syllabus</b>	Part I: LEED and EEWH evaluation system • EEWH introduction Part II: Building Lighting and Daylight design. Part III: Vernacular Architecture and Energy Conservation Design of Architecture • Life cycle in Residential Part IV: Group Discussion.  Recent successful public acceptance of the LEED (Leadership in Energy and Environmental Design) rating system has generated vast interests on specific issues such as environmental green,indoor air quality and building energy saving etc represent the cutting edge of environmental technology and ecological concern in architecture. These concerns expand our vision to the impact that construction industry has on health of the planet, and focus our attention on the health problem associated with the contemporary built environment. This class will offer a detailed introduction to issues of human health and environmental sustainability in architectural design. The course will consist of a combination of lectures, seminar discussions of assigned investigations and readings and short analysis of architectural design outcomes and performances. The course will be oriented toward achieving a basic level of competence of technical and ecological literacy relevant to design applications, and will also encourage students to explore and investigate subjects of their interests to built up their knowledge and to produce a guideline for sustainable design.