

100-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	生態智慧建築導論	Serial No. / ID	2345 / DAR5062
Dept.	設計暨藝術學院碩士班	School System / Class	研究所碩士班1年1班
Lecturer	卓銀永	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(三)678 / G109	Language	Chinese

Introduction
<p>The course introduces the professional knowledge for the development and the trend of low-carbon and green energy saving system in the future. It is suitable for graduate students with various backgrounds, such as building, space, industry, art and design, electrical, environmental engineering, science and technology innovation, creative management. The course generally covers ecological, green, intelligent, energy-saving and low-carbon facilities, introduction to operation management, as well as interaction with the material industry and other industries. It will also involves construction laws and regulations and cases studies.</p> <p>The case studies serve as a practice for students to participate in ecologic and intellectual architectures in the real world. In response to the future low-carbon community development and the global-climate change environmental awareness, the course aims to enhance the enthusiasm about and interest in eco-building design and construction management and enlighten the students with professional knowledge for future career developments.</p> <ol style="list-style-type: none"> 1. Strengthen the sensibility about the future low-carbon community development and the global-climate change environmental awareness; 2. Enhance the enthusiasm about eco-building design and construction management; 3. Enlighten the students with professional knowledge for future career developments.

Outline
<ol style="list-style-type: none"> 1. Introduction 2. Overview of eco-building 3. Definition and operation of eco-building 4. History of eco-building 5. Technology of eco-building : energy development 1 6. Technology of eco-building : energy development 2 7. Technology of eco-building : energy preservation 8. Field trip or case study 9. Mid-term report 10. Material for eco-building 11. Material for intelligent building 12. Overview of ecological footprint 13. Ecological footprint and sustainability 14. Enchantment of ecological footprint 1 15. Enchantment of ecological footprint 2

16. Strategy of sustainability and avoidance of over ecological consumption
17. Ecological constraints and ecological support
18. Final report

Prerequisite

unlimited