

98-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	燃料電池	Serial No. / ID	1608 / EDR5138
Dept.	電機工程學系博士班	School System / Class	研究所博士班1年1班
Lecturer	蔡渙良	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(一)567 / H367	Language	Chinese

Introduction
1. Introduce the basic principles of fuel cell technology.(A1,A2,B1-2,B2-1,B2-2,B3-2,B3-3,B4-1,B4-3,B4-4)
2. To describe the significant development of FC system applications(A1,A2,A3,B1-2,B2-1,B2-2,B3-2,B3-3,B4-1,B4-3,B4-4)
3. To provide a brief discussion of practical application of FC technologies.(A1,A2,A3,B1-2,B2-1,B2-2,B3-2,B4-1,B4-3,B4-4)

Outline
1. Introduction
2. Efficiency and Open Circuit Voltage
3. Operational Fuel Cell Voltage
4. Proton Exchange Membrane Fuel Cell (PEMFC)
5. Alkaline Electrolyte Fuel Cell (AFC)
6. Direct Methanol Fuel Cell (DMFC)
7. Phosphoric Acid Fuel Cell (PAFC)
8. Molten Carbonate Fuel Cell (MCFC)
9. Solid Oxide Fuel Cell (SOFC)
10. Fuel Cell System Design and Analysis

Prerequisite
None