

# 101-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	燃料電池	Serial No. / ID	1755 / EGR5323
Dept.	電機工程學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	蔡渙良	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(一)234 / H367	Language	English

Introduction
<ol style="list-style-type: none"> <li>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)</li> <li>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)</li> <li>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)</li> </ol>

Outline
<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Efficiency and Open Circuit Voltage</li> <li>3. Operational Fuel Cell Voltage</li> <li>4. Proton Exchange Membrane Fuel Cell (PEMFC)</li> <li>5. Alkaline Electrolyte Fuel Cell (AFC)</li> <li>6. Direct Methanol Fuel Cell (DMFC)</li> <li>7. Phosphoric Acid Fuel Cell (PAFC)</li> <li>8. Molten Carbonate Fuel Cell (MCFC)</li> <li>9. Solid Oxide Fuel Cell (SOFC)</li> <li>10. Fuel Cell System Design and Analysis</li> </ol>

Prerequisite
None