

# 100-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	電子電路	Serial No. / ID	1623 / MAI2045
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年1班
Lecturer	陳昭雄	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(三)34 / H440 (四)4 / H440	Language	Chinese

Introduction
<ol style="list-style-type: none"><li>1. Provide an understanding of the principle of electric circuits and electronics.</li><li>2. Provide a basic concept of the electric circuits and electronic elements</li><li>3. Provide an ability to analyze the DC circuits and AC circuits.</li><li>4. Provide an ability to analyze the circuits connected with diodes, transistor, and operational amplifier.</li></ol>

Outline
<p>Part 1 DC Circuits:</p> <p>單元主題1. Voltage, Current, and Resistance</p> <p>單元主題2. Ohm ' s Law, Energy, and Power</p> <p>單元主題3. Series and Parallel Circuits</p> <p>Part 2 AC Circuits</p> <p>單元主題4. RLC Circuits and Resonance</p> <p>單元主題5. Time Response of Reactive Circuits</p> <p>Part 3 Devices</p> <p>單元主題6. Diodes and Applications</p> <p>單元主題7. Transistors and Applications</p> <p>單元主題8. The Operational Amplifier Circuits</p>

Prerequisite
Calculus, Physics (Electric)