

# 100-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	電子熱傳	Serial No. / ID	1977 / MAI4035
Dept.	機械與自動化工程學系	School System / Class	大學日間部4年4班
Lecturer	陳國祥	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	Yes
Time / Place	(二)34 / H443 (三)2 / H443	Language	Chinese

Introduction
<p>Major objectives of the course include:</p> <ol style="list-style-type: none"> <li>1. Students learn the basic elements of electronic equipments and the heat transferred under operation.</li> <li>2. Students have the ability to describe the phenomenon of heat transfer in electronic equipments, which are heat conduction, convection, and radiation.</li> <li>3. Students have the ability to analyze the heat transfer problems in electronic equipments by commercial package.</li> </ol>

Outline
<ol style="list-style-type: none"> <li>(1)Introduction to Formulas for Thermal Design of Electronic Equipment</li> <li>(2)Introduction to the Modes of Heat Transfer in Electronic Equipment</li> <li>(3)Theoretical Power Dissipation in Electronic Components</li> <li>(4)Conduction Electronic Equipment Introduction</li> <li>(5)Fluid Dynamics for Electronic Equipment</li> <li>(6)Electronic Chassis Flow</li> <li>(7)Convection Heat Transfer in Electronic Equipment</li> <li>(8)Radiation Heat Transfer in Electronic Equipment</li> <li>(9)Combined Modes of Heat Transfer for Electronic Equipment</li> </ol>

Prerequisite
<p>Calculus, Physics</p>