

100-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	電子熱傳	Serial No. / ID	1841 / MAV4021
Dept.	機械與自動化工程學系	School System / Class	四技部4年1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"> 1. Students learn the basic elements of electronic equipments and the heat transferred under operation. 2. Students have the ability to describe the phenomenon of heat transfer in electronic equipments, which are heat conduction, convection, and radiation. 3. Students have the ability to analyze the heat transfer problems in electronic equipments by commercial package.

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

Prerequisite
<p>Calculus, Physics</p>