

102-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	熱流實驗方法	Serial No. / ID	2137 / MUR5044
Dept.	機械與自動化工程學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	吳佩學	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(一)234 / H455	Language	Chinese

Introduction
1. Let students familiarize themselves with the contents of scientific research and the planning for experimental work.
2. Instruct students various measurement techniques and related analyses applicable to thermal and fluid sciences.

Outline
1. Introduction to Experimental Scientific Research
2. Experimental Planning
3. Uncertainty Analysis
4. Liquid Crystal Thermography
5. Flow Rate Measurement
6. Temperature Measurement
7. Pressure Measurement
8. Velocity Measurement
9. Flow Visualization

Prerequisite
1. Fluid Mechanics
2. Heat Transfer
3. Thermodynamics