

100-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	熱力學(二)	Serial No. / ID	2782 / MAV2013
Dept.	機械與自動化工程學系	School System / Class	四技部2年1班
Lecturer	張一屏	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(一)ABC / H441	Language	Chinese

Introduction
Apply Thermodynamic laws in engineering powerplant and refrigeration system analysis and mixture combustion calculation, evaluation and analysis.

Outline
<ol style="list-style-type: none">1.Review of basic thermodynamic concepts and definitions.2.Introduction of system types and energy forms3.Thermodynamic first law review and application4.Thermodynamic property relations5.Entropy definition and application6.Thermodynamic second law statements7.Control mass system 2nd law8.Control volume system 2nd law9.Availability analysis and application10.Heat engine power cycle analysis11.Refrigerant cycle analysis12.Mixture properties analysis13.Combustion thermodynamics

Prerequisite
Physic, Chemistry, Thermodynamic (1)