

102-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	內燃機	Serial No. / ID	3229 / MAI3015
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年1班
Lecturer	鄭錕燦	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(五)567 / H444	Language	Chinese

Introduction
Establish the capability to anaysis, evaluate, and the method to improve the performance of internal combustion engines. a. Apply fundamental mathematics and physics to internal combustion engines. b. Understand the construction and operation principles for different kinds of engines. c. Learn how to apply thermodynamics to analysis engine cycles and modeling according to gasoline and diesel engine combustion systems. d. Study the parameter effects on the engine torque, horsepower, fuel economy and exhaust emissions.

Outline
<ol style="list-style-type: none">1. Introduction2. Operating Characteristics3. Engine Cycles4. Chemistry and Fuels5. Air and Fuel Induction6. Gasoline engine Combustion7. Diesel engine combustion8. Exhaust Flow

Prerequisite
Thermodynamics, Chemistry, Engineering mathematics, Mechanics of Materials,