

# 97-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	機械工程實驗(二)	Serial No. / ID	0541 / MAI3090
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年4班
Lecturer	鄭江河	Full or Part-time	專任
Required / Credit	Required / 1	Graduate Class	NO
Time / Place	(二)789 / H441	Language	Chinese

Introduction
This course contains experimental work in three labs: Fluid Mechanics Lab, Solid Mechanics Labs, and Automatic Control Lab.

Outline
Unit 1: Fluid Mechanics Lab: Free and forced vortices, Reynolds experiment, Venturi tube, Fluid viscosity measurement, Free air jet.
Unit 2: Solid Mechanics Lab: Buckling test, Torsion test, Test of beam shearing center, Bending of a beam, Thin-shell container.
Unit 3: Automatic Control Lab: A/D conversion, D/A conversion, DC motor test, Digital I/O test.

Prerequisite
English, Fluid Mechanics, Statics, Dynamics, Mechanics of Materials, Automatic Control.