

101-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	機械工程實驗(二)	Serial No. / ID	0734 / MAI3090
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年1班
Lecturer	蔡耀文	Full or Part-time	專任
Required / Credit	Required / 1	Graduate Class	No
Time / Place	(一)789 / H455	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.