

100-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	微機電系統概論	Serial No. / ID	1624 / MAI3050
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年1班
Lecturer	鄭江河	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(二)AB / H440 (三)9 / H440	Language	Chinese

Introduction
Microelectromechanical Systems is a fundamental course connecting microfabrication and microsystem design with practical problems. This course will provide students a thorough understanding of the bulk micromachining, surface micromachining, lithography, electroforming, molding, micro electro-discharge machining. The adequate ability to develop the micro manufacture and design model and to analyze the microsystem engineering will be developed.

Outline
<ol style="list-style-type: none">1.Introduction to microscopic world2.MEMS application3.Bulk micromachining4.Surface micromachining5.LIGA6.Non IC-based micromachining7.Bonding techniques8.Detection techniques9.Microactuators and microsensors

Prerequisite
Mechanical Manufacturing, Mechanics of Materials