

98-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	微機電系統概論	Serial No. / ID	3027 / MAV3040
Dept.	機械與自動化工程學系	School System / Class	四技部3年2班
Lecturer	王東安	Full or Part-time	兼任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(五)ABC / B505	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
1.Introduction to microscopic world 2.MEMS application 3.Bulk micromachining 4.Surface micromachining 5.LIGA 6.Non IC-based micromachining 7.Bonding techniques 8.Detection techniques 9.Microactuators and microsensors

Prerequisite
Mechanical Manufacturing, Mechanics of Materials