

# 102-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	永磁式無刷電機設計實務	Serial No. / ID	2550 / MPR5008
Dept.	工具機產業碩士學位學程	School System / Class	研究所碩士班1年1班
Lecturer	陳盛基	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(五)234 / H227	Language	Chinese

Introduction
In recent years, PM brushless machines have been extensively used in industrial, medical and aerospace applications, including medical assist systems, electromechanical flight actuators, electric vehicles, computers and household electric appliances, among others. Therefore, this course will focus on PM brushless machines design and analysis.

Outline
Chap1. Basic Concept Chap2. Manetic Circuit Model Chap3. Relationship between Electric and Mechanical Formulas Chap4. Brushless Motor Basics Chap5. Motor Design Chap6. Winding Layout Chap7. Magnetic Circuits Design Chap8. Machine Control Chap9. Performances of Brushless Motor Chap10. Motor Design Examples

Prerequisite
Electric Circuit, Calculus