

99-2 Preliminary Syllabus, Da-Yeh Univ

| Information | | | |
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| Title | 永磁式無刷電機設計實務 | Serial No. / ID | 1781 / EDR5042 |
| Dept. | 電機工程學系博士班 | School System / Class | 研究所博士班1年1班 |
| Lecturer | 陳盛基 | Full or Part-time | 專任 |
| Required / Credit | Optinal / 3 | Graduate Class | No |
| Time / Place | (二)34N / H367 | Language | Chinese |

| Introduction |
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| 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 |
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| 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 |
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| Electric Circuit, Calculus |