

## 99-2 Preliminary Syllabus, Da-Yeh Univ

| Information       |                          |                       |                |
|-------------------|--------------------------|-----------------------|----------------|
| Title             | 普通物理(電學)                 | Serial No. / ID       | 1626 / EEI1046 |
| Dept.             | 電機工程學系                   | School System / Class | 大學日間部1年1班      |
| Lecturer          | 范榮權                      | Full or Part-time     | 專任             |
| Required / Credit | Required / 3             | Graduate Class        | No             |
| Time / Place      | (二)34 / H203 (四)7 / H203 | Language              | Chinese        |

| Introduction   |
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| <p>A. Department of Electrical Engineering Da-Yeh University, the aims of education (Educational Objectives)</p> <ol style="list-style-type: none"> <li>1. Basic: teaching basic knowledge of mathematics and information.</li> <li>2. Professional: professional and technical training in electrical engineering.</li> <li>3. Integration: Strengthening the integration of technology application and training.</li> <li>4. International outlook: foreign language skills, culture and international perspective.</li> </ol> <p>B. Department of Electrical Engineering Da-Yeh University, Education core competencies (Educational Outcomes)</p> <ol style="list-style-type: none"> <li>1.1 has a basic knowledge of mathematics and ability.</li> <li>1.2 has a physical basis of knowledge and skills.</li> <li>1.3 has a basic knowledge of information technology and capability.</li> <li>2.1 with electrical engineering expertise and application capability.</li> <li>3.1 with data collection, simulation analysis, experimental design and problem solving ability.</li> <li>3.2 necessary for engineering practice and implement the technical ability.</li> <li>4.1 English with basic motor skills.</li> <li>4.2 understanding of domestic motor development trend of related industries and pulse.</li> <li>4.3 fully recognizes the importance of professional ethics, understanding of engineering technology on the environment, social and global implications, fulfilling the social responsibility of engineers.</li> </ol> <p>Course Objectives:</p> <p>Give students a thorough understanding of general physics courses to help students study for future courses (A1, B1.1, B1.2)</p> |

| Outline  |
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| <p>Introduction</p> <p>Chapter 21Coulombs LAW</p> <p>Chapter 22Finding the electric field(1)</p> <p>Chapter 23Finding the electric field(2)</p> <p>Chapter 24Finding the Electric Potential</p> <p>Mid Exm</p> <p>Chapter 25Capacitors and Capacitance</p> <p>Chapter 26Ohms Law</p> <p>Chapter 27Circuit Theory</p> <p>Chapter 28Magnetic Force</p> |

Prerequisite

High school math, calculus and physics