98-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	普通物理(電學)	Serial No. / ID	0566 / 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)12 / H303 (三)4 / H303	Language	Chinese

Introduction

A. Department of Electrical Engineering Da-Yeh University, the aims of education (Educational Objectives)
1. Basic: teaching basic knowledge of mathematics and information.
2. Professional: professional and technical training in electrical engineering.
3. Integration: Strengthening the integration of technology application and training.
4. International outlook: foreign language skills, culture and international perspective.
B. Department of Electrical Engineering Da-Yeh University, Education core competencies (Educational Outcomes)
1.1 has a basic knowledge of mathematics and ability.
1.2 has a physical basis of knowledge and skills.
1.3 has a basic knowledge of information technology and capability.
2.1 with electrical engineering expertise and application capability.
3.1 with data collection, simulation analysis, experimental design and problem solving ability.
3.2 necessary for engineering practice and implement the technical ability.
4.1 English with basic motor skills.
4.2 understanding of domestic motor development trend of related industries and pulse.
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.
Course Objectives:
Give students a thorough understanding of general physics courses to help students study for future courses (A1, B1.1, B1.2)

Outline

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

Chapter 29Current-Produced Magnetic Fields
Final Exam

Prerequisite
High school math, calculus and physics