100-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	普通物理(電學)	Serial No. / ID	1847 / MAB1009
Dept.	機械與自動化工程學系	School System / Class	進修學士班1年1班
Lecturer	李得勝	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(一)E / H345 (四)DE / H345	Language	Chinese

Introduction

A。Department of Mechanical and Automation Engineering Da-Yeh University, the aims of education (Educational Objectives)1 transfer of knowledge: education students to apply mathematics, science and engineering principles to solve mechanical and automation engineering。2 Technical Training: Emphasis on both theory and practice, education, students perform experiments and have the ability to verify the theory。3 innovative thinking: fostering students' independent thinking and innovative design capabilities。4 team: training students in engineering ethics, project management and organizational communication capabilities, enabling professionals to play a team efforts to solve the problem。5 life-long learning and global vision: to cultivate students with lifelong learning skills, enough to absorb the broad face of global demand for expertise。B。Department of Mechanical and Automation Engineering Da-Yeh UniversityEducation core competencies (Educational Outcomes)1。with basic math, science and engineering knowledge application ability。2。with the planning and execution of experiments and interpretation of the data of practical ability。3。has the technical ability to perform engineering practice。4。associated with the use of engineering analysis, design and manufacturing ability of the software applications。5。to have the program management, good expression, communication and teamwork of communicative competence

。6。 In the engineering-related industries, with practical problems of analysis and solution capabilities。7。 recognize the current issues, understand the engineering environmental, social and global impact。8。 have a professional attitude and the spirit of lifelong learning。Course Objectives: Give students a thorough understanding of general physics courses to help students study for future courses (A1, A2, B1, B2)

Outline

IntroductionChapter 21Coulombs LAWChapter 22Finding the electric field(1)Chapter 23Finding the electric field(2)Chapter 24Finding the Electric PotentialMid ExmChapter 25Capacitors and CapacitanceChapter 26Ohms LawChapter 27Circuit TheoryChapter 28Magnetic ForceChapter 29Current-Produced Magnetic FieldsFinal Exam

Prerequisite

High school math, calculus and physics