100-2 Preliminary Syllabus, Da-Yeh Univ

Information

Title	( )	Serial No. / ID	1125 / MAV2002
Dept.		School System / Class	2 1
Lecturer		Full or Part-time	
Required / Credit	Required / 3	Graduate Class	No
Time / Place	( )4 / H562 ( )23 / H537	Language	Chinese

Introduction

Engineering Mathematics (II) is a fundamental course connecting physics and mathematics with practical problems. This course will provide students a thorough understanding of linear algebra, vector differential calculus and vector Integral, Fourier Series, and partial differential equations. The adequate ability to develop the mathematical model and to analyze the engineering system will be developed.

Outline

1. Linear Algebra: Matrices, Vectors, Determinants, Linear Systems.
2. Linear Algebra: Matrix Eigenvalue Problems.
3. Vector Differential Calculus. Grad, Div, Curl
4. Vector Integral Calculus. Integral Theorems.
5. Fourier Series, Integrals, and Transforms.
6. Partial Differential Equations (PDEs).

Prerequisite

Calculus