



課程概述 Course Description

課程代碼 Course Code	中文課程名稱 Course Name(Chinese)	英文課程名稱 Course Name(Chinese)	總學分數 Credits	總時數 Hours	冊別 Hours
03264	線性代數	Linear Algebra	3	3	1
中文概述 Chinese Description	線性代數為工程類學科之基礎數學之一,著重於訓練學生矩陣運算及基本數學證明. 課程大綱如下: 1.解聯立方程式 2.矩陣運算 3.行列式 4.向量空間 5.線性轉換 6.特徵值及特徵向量 7.選擇性題材,視時間允許教授下列之一: 矩陣數值方法, Jordan form ,或線性規劃				
英文概述 English Description	As a basic mathematics in engineering,the course Linear Algebra emphasizes on the subject of matrix computation(theory) and the technique of mathematical proving.The outline of the course includes the following: 1.Systems of Linear Equations 2.Matrices 3.Determinants 4.Vector Spaces 5.Linear Transformations 6.Eigenvalues and Eigenvectors 7.Advanced Topics: selet one of the following if time permitted: Numerical Techniques in Matrix operations,Jordan form,or Linear Programming.				