

朝陽科技大學 093學年度第1學期教學大綱
Linear Algebra 線性代數

當期課號	X063	Course Number	X063
授課教師		Instructor	
中文課名	線性代數	Course Name	Linear Algebra
開課單位	資訊工程系碩士班	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	<p>線性代數這門課的主要目標是了解矩陣相關概念與矩陣計算、解線性方程組之基本方法、歐氏空間與其他更廣泛的向量空間及子空間之觀念、線性變換及其矩陣表現、矩陣與線性變換之特徵直、特徵向量的相關概念與計算、具特殊性質與應用性之矩陣等。學生可從課程中學得：</p> <ol style="list-style-type: none"> 1.線性方程式組及矩陣簡介 2.行列式 3.二維及三維向量空間 4.歐式向量空間 5.向量空間 6.內積向量空間 7.特徵值及特徵向量 8.線性轉換 	Objectives	<p>The main goal of the linear algebra, this subject, is to understand relevant concepts of matrix and matrix are calculated, basic method to solve linear equation group, Euclidean Spaces and other more extensive ideas of vector space and sub space, linear transformation and matrix displaying, matrix and linear relevant concepts and calculation with Eigenvalues, Eigenvectors, having special nature and using matrix. Students can obtain from this course as follows:</p> <ol style="list-style-type: none"> 1. Brief introduction of matrices and linear system 2. Determinant 3. Two-dimension and vector space of three-dimension 4. Euclidean Spaces 5. Vector space 6. Inner vector space 7. Eigenvalues and eigenvectors 8. Linear transformation
教材		Teaching Materials	
成績評量方式		Grading	
教師網頁	-		
教學內容		Syllabus	

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