**100172002 Linear Algebra B**

**Class Hours: 48**

**Credit: 3**

**Course Description**This course is required for the students major in engineering, management, etc. Its purpose is to provide an introduction to linear algebra, a branch of mathematics dealing with matrices and vector spaces. Its fundament concepts, theories and methods are the foundation of many modern science theories and engineering technologies, such as differential equation, matrix analysis, physics, control theory, information science, chemistry, biology, economics, business, and so on.

The objective of this course is to make the students master the essential theories and methodologies of matrices, system of linear equations, vector spaces, determinant, eigenvalues and eigenvectors, quadratic form, develop their abilities of abstract thinking and reasoning, possess the capacity for solving real problems by using knowledge of linear algebra.