



Indian Institute of Management Indore

Integrated Programme in Management

TERM: III

TITLE OF THE COURSE: Linear Algebra

CREDITS: 6

COURSE DESCRIPTION

This is an introductory course on Linear Algebra. It is meant to introduce students to the different topics in Linear Algebra and their applications. The course begins with systems of linear equations, their matrix representation, and their solution procedure. This is followed by matrix factorization and determinants. Then, vector spaces and subspaces, orthogonally and least squares are introduced. The concepts of eigenvalues and eigenvectors are taught next, followed by symmetric matrices and quadratic forms. The last module covers applications of Linear Algebra in different fields. Finally, numerical aspects are covered in brief.

COURSE OBJECTIVES

To introduce Linear Algebra at an undergraduate level, and teach various concepts of Linear Algebra and their application. To make students aware of the application of Linear Algebra in various management disciplines.
