

Course Code CSM205 **Course Name** Linear Algebra

Pre-Requisite

Course Type Compulsory **ECTS Credit** 5

Language of Instruction English

Year of Study 2nd / 3rd Level of Course BSc/1st Cycle Mode of Delivery On Campus

Course Objectives:

It includes basic themes such as tables, layouts and solving linear systems the concepts of eigenvalues and eigenvectors.

Learning Outcomes:

Upon successful completion of the course, students will be able to:

- Handle vectors and tables.
- Solve linear equations.
- Calculate eigenvalues and eigenvectors of tables.
- Handle Vector spaces and linear transformations
- Understand the relationship between tables and linear depictions.
- Perform equivalence and similarity transformations in tables.

Teaching Methodology:

Lectures 42 hours

Course Content

Tables

Linear Systems

Gauss deletion method and Cramer method. Table grade.

Investigation of linear systems.

Vector spaces: Definitions, attributes and subtree.

Linear dependence and independence.

Characteristics Sizes - Normal Formats

Assessment Methods:

Final Exam

Required Textbooks/Reading:

Title	Author(s)	Publisher	Year
Linear Algebra and its applications	David Lay	Pearson	2016
Engineering Mathematics	Hargreaves	Pearson	2017