

Course Syllabus

1. Course number and name: 020ALNNI2 Linear Algebra
2. Credits and contact hours: 8 ECTS credits, 4x1:15 course hours
3. Instructor's or course coordinator's name: Jad DAKROUB
4. Text book, title, author, and year
 - a. other supplemental materials:
Professor textbook and course material
5. Specific course information
 - a. Catalog description: Algebraic structures. Vector Space and linear applications. Determinant. Matrix reduction.
 - b. Prerequisites: Lebanese or French baccalaureate.
 - c. Required/Elective/Selected Elective: Required
6. Specific goals for the course
 - a. specific outcomes of instruction
 - Identify algebraic structures.
 - Identify a vector space and manipulate linear applications.
 - Manipulate matrices and compute its determinants.
 - Compute eigenvalues and eigenvectors.
 - Matrix diagonalization and trigonalization.
 - b. KPIs addressed by the course.

KPI	a1
Covered	x
Assessed	x
Give Feedback	x

7. Topics and approximate lecture hours :
 - Algebraic structure: Groups, rings and fields, (8 Lectures)
 - Vector space, endomorphism and linear application, (15 Lectures)
 - Matrix, (10 Lectures)
 - Determinant and system of linear equations,(8 Lectures)
 - Matrix reduction, (15 Lectures)