This is an introductory course on Linear Algebra. In this course, among other things, you will learn matrix algebra and its applications.

Topics to be covered are:

**Matrix operations**
- Binary operations on matrices
- Unitary operations on matrices

**Linear systems**
- Systems of linear equations
- Rank and systems of linear equations
- Systems with a unique solution, no solutions
- Systems with infinitely many solutions

**Linear transformations**
- Linear transformations
- Affine transformations

**Eigenvalues and Eigenvectors**
- Eigenvalues
- Eigenvectors
- Quadratic forms