אוניברסיטת
בן-גוריון בנגב

The Department of Mathematics

2022—23—B term

Course Name Linear Algebra for Electrical Engineering 1

Course Number 212.1.9511

Course web page
`https://www.math.bgu.ac.il//en/teaching/spring2023/courses/linalgee`

Office Hours `https://www.math.bgu.ac.il/en/teaching/hours`

Abstract

Requirements and grading[1]

Course topics

.1 Fields: the definition of a field, complex numbers.

.2 Linear equations: elementary operations, row reduction, homogeneous and non-homogeneous equations, parametrization of solutions.

.3 Vector spaces: examplex, subspaces, linear independence, bases, dimension.

.4 Matrix algebra: matrix addition and multiplication, elementary operations, the inverse matrix, the determinant and Cramer's law. Linear transformations: examples, kernel and image, matrix representation.

[1] Information may change during the first two weeks of the term. Please consult the webpage for updates