

The Department of Mathematics

2020–21–B term

Course Name Linear Algebra for Electrical Engineering 1

Course Number 201.1.9511

Course web page

<https://www.math.bgu.ac.il/en/teaching/spring2021/courses/linalgee>

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

Abstract

Requirements and grading¹

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: examples, 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.

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