

The Department of Mathematics

2019–20–A 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/fall2020/courses/linear-algebra-for-electrical-engineering-1>

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

Abstract

Requirements and grading¹

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.

Course topics

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