

# The Department of Mathematics

2020–21–B term

**Course Name** Linear Algebra for Electrical Engineering 2

**Course Number** 201.1.9521

**Course web page**

<https://math.bgu.ac.il/en/teaching/spring2021/courses/linear-algebra-for-electr>

**Lecturer** Dr. Dennis Gulko, <gulkod@post.bgu.ac.il>, Office

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

## Abstract

## Requirements and grading<sup>1</sup>

### 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.

---

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