

# The Department of Mathematics

2024–25–A term

**Course Name** Probability and Statistics For Software Engineering

**Course Number** 201.1.2381

**Course web page**

<https://www.math.bgu.ac.il/en/teaching/fall2025/courses/probability-and-statist>

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

## Abstract

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

## Course topics

(1 Probability space (2 Law of total probability (3 Conditional probability, independent events (4 Bayes' law (5 Discrete random variables. Discrete distributions: uniform, Bernoulli, binomial, geometric, Poisson (6 Continuous random variable. Continuous distributions: uniform, exponential, normal (7 Discrete two-dimensional joint random variables (8 Independence of random variables (9 Expectation (10 Variance, covariance, correlation coefficient

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