

## The Department of Mathematics

2024–25–B term

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

**Course Number** 201.1.2381

**Course web page**

<https://math.bgu.ac.il/en/teaching/spring2025/courses/prodability-and-statistic>

**Lecturer** Dr. Luba Sapir, <lsapir@post.bgu.ac.il>, Office -109

**Office Hours** <https://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