

## The Department of Mathematics

2020–21–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/fall2021/courses/probability-and-statist>

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**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