The Department of Mathematics
2021–22–B term

Course Name Introduction to Probability and Statistics A

Course Number 201.1.9091

Course web page
> https://www.math.bgu.ac.il//en/teaching/spring2022/courses/
> introduction-to-probability-and-statistics-a

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

Abstract

Requirements and grading[1]

Course topics

(1) Probability space.(2) Conditional probability, independent events, Bayes's theorem, complete probabilities.(3) Random discrete variable, discrete distributions: unfiorm, binomial, geometric, hypergeometric, negative binomial, Poisson.(4) Random continuos variable, continuos distributions: unfiorm, exponential, normal.(5) Random discrete two dimensional variable, independence of variables.(6) Mean, variance, correlation coefficient.(7) Chebyshev inequalitiy, large numbers law.(8) Central Limit Theorem, normal approximation.

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