The Department of Mathematics
2021–22–B term

Course Name  Introduction to Statistics A

Course Number  201.1.9421

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

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

Abstract

Requirements and grading

Course topics

1. Descriptive statistics: organizing, processing and displaying data.
2. Sampling distributions: Normal distribution, the student t-distribution, Chi-Square distribution and Fisher’s F-distribution.
3. Estimation: A point estimate and Confidence Interval of population parameters: Mean variance and proportion. Tolerance interval.
4. Testing hypothesis about a population’s parameters: Mean, variance and proportion.
5. Evaluating the properties of a statistical test: errors, significance level and power of a test.
8. Testing for goodness of fit of data to a probabilistic model: Chi-Square test.
10. Weibull distribution: estimating the distribution’s parameters.

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