

JEL 213 Introduction to Statistical Hypothesis Testing

Structure of scientific explanation and the role of statistical hypothesis testing in it; Basic logic of hypothesis testing; Basic probability theory - random variables and their distributions, expectations and moments, correlation and regression; conditional probability; methods of enumeration; sampling and estimation; parametric tests of means (t-Tests, ANOVAs); tests of variances; experimental design; types of data and variables; non-parametric tests of hypotheses.

No prescribed textbooks. Suggested readings include Biometry (Sokal and Rohlf), and Biostatistics (J. Zar).