

Certificate Courses in Biostatistics

Fundamentals of Biostatistics

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Duration: 12 Weeks

Level: Beginner to Intermediate

Eligibility: Healthcare professionals, life science graduates, public health researchers, MBBS/BDS/BSc Nursing, MPH, MSc (Biostats), etc.

Course Objectives:

- Understand key concepts and methods of biostatistics
- Develop the ability to summarize and interpret biological and health data
- Gain skills in designing and analyzing health research studies

Weekly Course Outline:

Week 1: Introduction to Biostatistics

Week 2: Descriptive Statistics

Week 3: Probability Basics

Week 4: Sampling Methods

Week 5: Estimation and Confidence Intervals

Week 6: Hypothesis Testing - Basics

Week 7: Chi-Square and Non-parametric Tests

Week 8: Correlation and Simple Regression

Week 9: ANOVA Techniques

Week 10: Study Design Basics

Week 11: Epidemiological Rates and Measures

Week 12: Capstone Project