

Applied Biostatistical Analysis Course

for Scientific Research

Comprehensive Course to Master Statistical Analysis and Its Applications in Scientific Research



Dr. Ahmed Hussein

Assistant Professor of Mathematics and Statistics
Head of Student Affairs Unit - Vision College, Riyadh

15 Years of Experience in Teaching Statistics and Scientific Research

Course Objectives

Master Statistical Analysis Fundamentals

Empower researchers to understand and apply basic and advanced statistical concepts in their scientific research

Determine Correct Sample Size

Select appropriate sample size for research and choose it according to scientific and statistical foundations

Design Scientific Questionnaires

Train researchers in designing and building questionnaires and statistical analysis while ensuring data quality and accuracy

Practical Application Using SPSS & Excel

Equip researchers with professional statistical analysis skills using SPSS and Excel software

Choose Appropriate Statistical Methods

Guide researchers to select the most suitable statistical method that aligns with the nature of research objectives and questions

Explain and Interpret Results

Explain the most important statistical methods that help analyze data and accurately extract and interpret results

Course Topics and Advanced Subjects

1 Introduction to Biostatistics and Medical Statistics

2 Types of Variables and Data

3 Descriptive and Inferential Statistics

4 Questionnaire Design and Construction

5 Sample Size Calculation and Selection Methods

6 Hypothesis Testing

7 Analysis of Variance (ANOVA)

8 Regression and Correlation

9 Chi-Square Test

10 T-Test and Z-Test

11 Non-Parametric Analysis

12 Survival Analysis

13 Logistic Regression

14 Practical Applications on SPSS & Excel

15 Results Interpretation and Report Writing

16 Professional Data Visualization

Target Audience

Researchers and those interested in statistical analysis in medical, health, and scientific fields
Graduate students, academics, and specialists in scientific research

For Inquiries and Registration

Course dates and fees will be announced soon
For more information, please contact us directly