

SYLLABUS - STATISTICAL TECHNIQUES COVERED

Below are the technical names for the procedures covered in this course.

Data	Definitions, types, scales, normality
Graphs	Bar charts, histograms, box plots
Statistical Measures	Mean, Median, mode, standard deviation, variance, standard error, range, confidence intervals
Concepts of testing	Hypotheses, significance, power, p-values
Categorical Data	Contingency tables, chi-squared test, Fisher's exact test, McNemar's test, relative risk, sample sizes
Quantitative Data – Comparing Two groups	t-test, Mann-Whitney test, paired t, Wilcoxon's signed rank, sign test, sample size.
Quantitative Data-More than Two Groups	ANOVA, Kruskal-Wallis, Multiple Comparison Tests, Experimental Design, sample size
Quantitative Data - Relationships	Correlation, Simple Linear Regression, Multiple Linear Regression-backwards, forwards, stepwise, Transformations