

Quantitative Methods (Statistics)

Topic	Details	(Theory)	(Practice)
Descriptive Statistics	Tabulation, charts, Measures of Central Tendency (Mean, Median, Mode) and Measures of Dispersion (Range, Mean Deviation, Quartile Deviation, Standard Deviation)	5 hours	2 hours
Probability	Meaning, Approaches, Rules, Conditional Probability, Bayes' Theorem	5 hours	2 hours
Probability Distributions	Binomial, Poisson, Hyper-geometric, Uniform, Normal	6 hours	5 hours
Correlation	Meaning, Scatter Diagram, Karl Pearson's Coefficient for Bivariate Linear Correlation for grouped and ungrouped data, Spearman's Rank Correlation	6 hours	3 hours
Regression	Bivariate Regression, Derivation of slope and intercept, multiple (multivariate) regression	5 hours	5 hours
Inferential Statistics	Sampling methods, need for inference, sampling distribution, central limit theorem, one sample tests, two sample tests for mean, proportion and variance	10 hours	10 hours
Analysis of Variance	One way and Two way ANOVA	3 hours	2 hours
Non-parametric tests	Chi-square test (Goodness of Fit and Independence Test), run test, sign test, Wilcoxon test, Kolmogorov-Smirnov Test, Mann-Whitney U Test	6 hours	4 hours
Time Series	Components, Trend Analysis, Deseasonalization, Smoothing methods	6 hours	5 hours
Index Numbers	Meaning, types, weighted and unweighted indices	4 hours	2 hours
Statistical Quality Control	X bar, R and p charts, TQM, Acceptance Sampling	7 hours	5 hours

1. Exam oriented learning
2. Real time data-enabled thinking
3. Analytical approach
4. Use of Excel and SPSS software

**Trainer : 10+ years
expert (PHD)**

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