

# ADVANCE QUALITY SCIENCE STATISTICS



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# MODULES

- Unit 1 Measurement Systems Analysis
- Unit 2 Factorial Designs
- Unit 3 Fractional Factorial Designs
- Unit 4 Empirical Model Building and Analysis of Residuals
- Unit 5 Blocking and Fold-Over Designs
- Unit 6 Single Replicate Experiments
- Unit 7 Data Transformations in Experimental Design
- Unit 8 Multiple Response Experiments
- Unit 9 Addition of Centre Points
- Unit 10 Response Surface Methodology
- Unit 11 Categorical Data Analysis
- Unit 12 Nonparametric Tests

# MINITAB

- Introduction to Minitab
- Creating a Full factorial Design
- Analysing a Full Factorial Design
- Creating a Fractional Factorial Design
- Analysing a Fractional Factorial Design
- Specifying Design Generators
- Foldover Designs
- Blocking
- Analysis of a Single Replicate Experiment
- Box-Cox Transformations
- Multiple Response Optimisation
- Factorial Designs with Centre Points
- Central Composite Designs