NPTEL Video Course - Chemical Engineering - Statistics for Experimentalists

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Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction
Lecture 2 - Random Variables
Lecture 3 - Discrete Probability Distributions
Lecture 4 - Example Set - I
Lecture 5 - Continuous probability distributions
Lecture 6 - Normal probability distribution
Lecture 7 - Exploratory Data Analysis - Part A
Lecture 8 - Exploratory Data Analysis - Part B
Lecture 9 - Example Set - II
Lecture 10 - Example Set - III
Lecture 11 - Random samples
Lecture 12 - Random samples
Lecture 13 - Point Estimation
Lecture 14 - Sampling distributions and the Central Limit Theorem
Lecture 15 - Example Set - IV Part A
Lecture 16 - Estimation of Population Parameters Using Moments
Lecture 17 - Confidence Intervals (Part A)
Lecture 18 - Confidence Intervals (Part B)
Lecture 19 - The T-distribution
Lecture 20 - Chi-square distribution
Lecture 21 - F-Distribution
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Lecture 23 - Hypothesis Testing - Part A
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Lecture 25 - Hypothesis Testing - Part C
Lecture 26 - Analysis of Experiments involving Single Factor - Part A
Lecture 27 - Analysis of Experiments involving Single Factor - Part B
Lecture 28 - Blocking and Randomization
Lecture 29 - Example Set - VI - Part A

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Lecture 30 - Example Set - VI - Part B
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