

## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Mathematics - NOC:Introduction to Probability and Statistics (in Hindi)

Subject Co-ordinator - Prof. Abhay Gopal Bhatt

Co-ordinating Institute - ISI - Delhi

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

- Lecture 1 - Random Experiments
- Lecture 2 - Axioms of Probability
- Lecture 3 - Determining Probabilities
- Lecture 4 - Determining Probabilities (Continued...)
- Lecture 5 - Equally Likely Events
- Lecture 6 - Equally Likely Events (Continued...)
- Lecture 7 - Conditional Probability
- Lecture 8 - Bayes's Theorem
- Lecture 9 - Independent Events
- Lecture 10 - Independent Events (Continued...)
- Lecture 11 - Discrete Random Variables
- Lecture 12 - Probability Mass Function
- Lecture 13 - Cumulative Distribution Function
- Lecture 14 - Expectation of a Discrete Random Variable
- Lecture 15 - Variance
- Lecture 16 - Binomial Distribution
- Lecture 17 - Negative Binomial Distribution
- Lecture 18 - Hypergeometric and Poisson Distributions
- Lecture 19 - Hypergeometric and Poisson Distributions (Continued...)
- Lecture 20 - Continuous Random Variables
- Lecture 21 - CDF Of A Continuous Distribution
- Lecture 22 - Expectation Of A Continuous Random Variable
- Lecture 23 - Expectation of A Continuous Random Variable (Continued...)
- Lecture 24 - Normal Distribution
- Lecture 25 - Jointly Distributed Discrete Random Variables
- Lecture 26 - Jointly Distributed Continuous Random Variables
- Lecture 27 - Expectations Of Functions Of Several Variables
- Lecture 28 - Covariance
- Lecture 29 - Correlation Coefficient

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## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

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- Lecture 30 - Statistic
- Lecture 31 - Sampling Distributions
- Lecture 32 - Distribution of Sample Mean
- Lecture 33 - Central Limit Theorem, Distribution of a Linear Combination
- Lecture 34 - Estimation
- Lecture 35 - Unbiased Estimators
- Lecture 36 - Standard Error of Estimators
- Lecture 37 - Method of Moments
- Lecture 38 - Maximum Likelihood Estimation
- Lecture 39 - Invariance Principle; Confidence Intervals
- Lecture 40 - Large Sample Confidence Intervals
- Lecture 41 - Student's t-distribution
- Lecture 42 - Tests of Hypotheses - 1
- Lecture 43 - Tests of Hypotheses - 2
- Lecture 44 - Tests For Population Means