

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

NPTEL Video Course - Mathematics - NOC:Introduction to Probability (with examples using R)

Subject Co-ordinator - Prof. Siva Athreya

Co-ordinating Institute - ISI - Bangalore

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

Lecture 1 - Sample Space, Events and Probability  
Lecture 2 - Properties of Probability  
Lecture 3 - Equally likely Outcomes  
Lecture 4 - Conditional Probability  
Lecture 5 - Bayes Theorem  
Lecture 6 - Independence - Part 1  
Lecture 7 - Independence - Part 2  
Lecture 8 - Sampling and Repeated Trials  
Lecture 9 - Sampling and Repeated Trials - Part 1  
Lecture 10 - Sampling and Repeated Trials - Part 2  
Lecture 11 - Sampling with and Without Replacement  
Lecture 12 - Sampling without Replacement  
Lecture 13 - Hypergeometric Distribution and Discrete Random Variables  
Lecture 14 - Discrete Random Variables - Part 1  
Lecture 15 - Discrete Random Variables - Part 2  
Lecture 16 - Conditional, Joint and Marginal Distributions  
Lecture 17 - Memoryless property of Geometric Distribution  
Lecture 18 - Functions of Random Variables  
Lecture 19 - Sums of Independent Random Variables  
Lecture 20 - Functions and Independence  
Lecture 21 - Expectation of Random Variables  
Lecture 22 - Properties of Expectation  
Lecture 23 - Expectation: Independence and Functions  
Lecture 24 - Variance of Discrete Random Variables  
Lecture 25 - Markov and Chebyshev Inequalities  
Lecture 26 - Conditional Expectation and Covariance  
Lecture 27 - Continuous Random Variables - Part 1  
Lecture 28 - Continuous Random Variables - Part 2  
Lecture 29 - Distribution Function

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- Lecture 30 - Exponential and Normal Random Variable
- Lecture 31 - Normal Random Variable
- Lecture 32 - Change of Variable
- Lecture 33 - Joint Distribution of Continuous Random Variables
- Lecture 34 - Marginal Density and Independence
- Lecture 35 - Conditional Density
- Lecture 36 - Sums of Independent Random Variables
- Lecture 37 - Quotient of Independent Random Variables
- Lecture 38 - Expectation and Variance of Continuous Random Variables
- Lecture 39 - Sampling Distribution and Sample Mean
- Lecture 40 - Weak Law of Large Numbers
- Lecture 41 - Revisit of Variance and Expectation
- Lecture 42 - Revisit of Properties of Variance
- Lecture 43 - Revisit Weak Law of Large Numbers
- Lecture 44 - Demoivre-Laplace Central Limit Theorem and Normal Random Variables
- Lecture 45 - Revisit Normal Random Variables
- Lecture 46 - Normal Tables, Mean and Variance