

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

NPTEL Video Course - Mathematics - NOC:Probability-II with Examples Using R

Subject Co-ordinator - Prof. Siva Athreya

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Continuous Random Variables - Part 1
Lecture 2 - Continuous Random Variables - Part 2
Lecture 3 - R Set Up
Lecture 4 - Exponential and Normal Random Variable
Lecture 5 - Normal Random Variable
Lecture 6 - Distribution Function
Lecture 7 - Normal Distribution
Lecture 8 - Problem Solving for Week 12 - Part 2
Lecture 9 - Joint Distribution of Continuous Random Variables
Lecture 10 - Marginal Density and Independence
Lecture 11 - Uniform Distribution in R^2
Lecture 12 - Problem Solving
Lecture 13 - Bivariate Normal - Part 1
Lecture 14 - Problem Solving 1 - Calculating Probabilities
Lecture 15 - Problem Solving 2 - Quadratic Equation, Random Coefficients
Lecture 16 - Conditional Density
Lecture 17 - Sums of Independent Random Variables
Lecture 18 - Quotient of Independent Random Variables
Lecture 19 - Simulating Bivariate Normal Random Variables
Lecture 20 - Problem Solving Conditional Density
Lecture 21 - Expectation and Variance of Continuous Random Variables
Lecture 22 - Revisit of Variance and Expectation
Lecture 23 - Revisit of Properties of Variance
Lecture 24 - Covariance and Correlation
Lecture 25 - Conditional Expectation and Conditional Variance
Lecture 26 - Analysis of Variance Formula
Lecture 27 - Problem Solving Expectations
Lecture 28 - Moment Generating Function
Lecture 29 - Moments and Moment Generating Function

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- Lecture 30 - Bivariate Normal - Part 2
- Lecture 31 - Problem Solving Conditional Expectation and Conditional Variance
- Lecture 32 - Sampling Distribution and Sample Mean
- Lecture 33 - Weak Law of Large Numbers
- Lecture 34 - Revisit Weak Law of Large Numbers
- Lecture 35 - Problem Solving
- Lecture 36 - Demoivre-Laplace Central Limit Theorem and Normal Random Variables
- Lecture 37 - Revisit Normal Random Variables
- Lecture 38 - Normal Tables, Mean and Variance
- Lecture 39 - Problem Solving
- Lecture 40 - Bivariate Normal Random Variables_Characterisation
- Lecture 41 - Bivariate Normal Random Variables_Independence
- Lecture 42 - Problem Solving
- Lecture 43 - Bivariate Normal Random Variables Joint Density Calculation - Part 1
- Lecture 44 - Bivariate Normal Random Variables Joint Density Calculation - Part 2
- Lecture 45 - Problem Solving - Review of Transformation of Random Variables