

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

NPTEL Video Course - Mathematics - NOC:Probability and Statistics

Subject Co-ordinator - Prof. Somesh Kumar

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Sets, Classes, Collection
- Lecture 2 - Sequence of Sets
- Lecture 3 - Ring, Field (Algebra)
- Lecture 4 - Sigma-Ring, Sigma-Field, Monotone Class
- Lecture 5 - Random Experiment, Events
- Lecture 6 - Definitions of Probability
- Lecture 7 - Properties of Probability Function - I
- Lecture 8 - Properties of Probability Function - II
- Lecture 9 - Conditional Probability
- Lecture 10 - Independence of Events
- Lecture 11 - Problems in Probability - I
- Lecture 12 - Problems in Probability - II
- Lecture 13 - Random Variables
- Lecture 14 - Probability Distribution of a Random Variable - I
- Lecture 15 - Probability Distribution of a Random Variable - II
- Lecture 16 - Moments
- Lecture 17 - Characteristics of Distributions - I
- Lecture 18 - Characteristics of Distributions - II
- Lecture 19 - Special Discrete Distributions - I
- Lecture 20 - Special Discrete Distributions - II
- Lecture 21 - Special Discrete Distributions - III
- Lecture 22 - Poisson Process - I
- Lecture 23 - Poisson Process - II
- Lecture 24 - Special Continuous Distributions - I
- Lecture 25 - Special Continuous Distributions - II
- Lecture 26 - Special Continuous Distributions - III
- Lecture 27 - Special Continuous Distributions - IV
- Lecture 28 - Special Continuous Distributions - V
- Lecture 29 - Normal Distribution

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- Lecture 30 - Problems on Normal Distribution
- Lecture 31 - Problems on Special Distributions - I
- Lecture 32 - Problems on Special Distributions - II
- Lecture 33 - Function of a random variable - I
- Lecture 34 - Function of a random variable - II
- Lecture 35 - Joint Distributions - I
- Lecture 36 - Joint Distributions - II
- Lecture 37 - Independence, Product Moments
- Lecture 38 - Linearity Property of Correlation and Examples
- Lecture 39 - Bivariate Normal Distribution - I
- Lecture 40 - Bivariate Normal Distribution - II
- Lecture 41 - Additive Properties of Distributions - I
- Lecture 42 - Additive Properties of Distributions - II
- Lecture 43 - Transformation of Random Variables
- Lecture 44 - Distribution of Order Statistics
- Lecture 45 - Basic Concepts
- Lecture 46 - Chi-Square Distribution
- Lecture 47 - Chi-Square Distribution (Continued...), t-Distribution
- Lecture 48 - F-Distribution
- Lecture 49 - Descriptive Statistics - I
- Lecture 50 - Descriptive Statistics - II
- Lecture 51 - Descriptive Statistics - III
- Lecture 52 - Descriptive Statistics - IV
- Lecture 53 - Introduction to Estimation
- Lecture 54 - Unbiased and Consistent Estimators
- Lecture 55 - LSE, MME
- Lecture 56 - Examples on MME, MLE
- Lecture 57 - Examples on MLE - I
- Lecture 58 - Examples on MLE - II, MSE
- Lecture 59 - UMVUE, Sufficiency, Completeness
- Lecture 60 - Rao - Blackwell Theorem and Its Applications
- Lecture 61 - Confidence Intervals - I
- Lecture 62 - Confidence Intervals - II
- Lecture 63 - Confidence Intervals - III
- Lecture 64 - Confidence Intervals - IV
- Lecture 65 - Basic Definitions
- Lecture 66 - Two Types of Errors
- Lecture 67 - Neyman-Pearson Fundamental Lemma
- Lecture 68 - Applications of N-P Lemma - I

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- Lecture 69 - Applications of N-P Lemma - II
- Lecture 70 - Testing for Normal Mean
- Lecture 71 - Testing for Normal Variance
- Lecture 72 - Large Sample Test for Variance and Two Sample Problem
- Lecture 73 - Paired t-Test
- Lecture 74 - Examples
- Lecture 75 - Testing Equality of Proportions
- Lecture 76 - Chi-Square Test for Goodness Fit - I
- Lecture 77 - Chi-Square Test for Goodness Fit - II
- Lecture 78 - Testing for Independence in rxc Contingency Table - I
- Lecture 79 - Testing for Independence in rxc Contingency Table - II