NPTEL Video Course - Mathematics - NOC:Descriptive Statistics with R Software

Subject Co-ordinator - Prof. Shalabh

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction to R Software
Lecture 2 - Basics and R as a Calculator
Lecture 3 - Calculations with Data Vectors
Lecture 4 - Built-in Commands and Missing Data Handling
Lecture 5 - Operations with Matrices
Lecture 6 - Objectives, Steps and Basic Definitions
Lecture 7 - Variables and Types of Data
Lecture 8 - Absolute Frequency, Relative Frequency and Frequency Distribution
Lecture 9 - Frequency Distribution and Cumulative Distribution Function
Lecture 10 - Bar Diagrams
Lecture 11 - Subdivided Bar Plots and Pie Diagrams
Lecture 12 - 3D Pie Diagram and Histogram
Lecture 13 - Kernel Density and Stem - Leaf Plots
Lecture 14 - Arithmetic Mean
Lecture 15 - Median
Lecture 16 - Quantiles
Lecture 17 - Mode, Geometric Mean and Harmonic Mean
Lecture 18 - Range, Interquartile Range and Quartile Deviation
Lecture 19 - Absolute Deviation and Absolute Mean Deviation
Lecture 20 - Mean Squared Error, Variance and Standard Deviation
Lecture 21 - Coefficient of Variation and Boxplots
Lecture 22 - Raw and Central Moments
Lecture 23 - Sheppard's Correction, Absolute Moments and Computation of Moments
Lecture 24 - Skewness and Kurtosis
Lecture 25 - Univariate and Bivariate Scatter Plots
Lecture 26 - Smooth Scatter Plots
Lecture 27 - Quantile- Quantile and Three Dimensional Plots
Lecture 28 - Correlation Coefficient
Lecture 29 - Correlation Coefficient Using R Software

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