Stat-116: Statistical Data Analysis-I
50 Marks: 02 Credits
Number of Class: 20-26

Group A (Basic Statistics-I): 30 Marks

Construction of Tables and Frequency Distributions with Equal and Unequal Class Intervals, Graphical Representation of data, Calculation of Statistical Averages, Quantiles. Calculation of Various Measures of Dispersion- Range, Inter-quartile Range, Quartile Deviation, Mean Deviation, Variance, Standard Deviation, Standard Error, Coefficient of Variation etc. Moments, Skewness and Kurtosis. Construction of Time Series Plot.

Construction of Different Types of Indices by the Different Unweighted and Weighted Formulae, Tests of Index Number, Cost of Living Index Number.

Group B (Linear Algebra): 20 Marks

Matrix Inversion, Rank of Matrix, Vector Space, Solution of Homogeneous and Non-Homogeneous System of Equations, Calculation of Latin Roots, Indices of Matrices of Different Quadratic Forms.