

PG Department of Mathematics
Value added course – Statistics

Second Semester

TOTAL HOURS : 30

Syllabus

Course Outcome

Students are able to

CO1: Understand the have the basic knowledge on data collection and various statistical elementary tool.

CO2: Deliberate in details with application, if applicable, Presentation of special reference.

CO3: Write down the details of Measures of Central Tendency and Dispersion.

CO4: Understand the characteristics of Bivariate data and identify the details of the rank correlation.

Syllabus

COURSE CONTENT

Unit I : Definition and scope of Statistics, concepts of statistical population and sample. Data: quantitative and qualitative, attributes, variables, scales of measurement nominal, ordinal, interval and ratio.

Unit II : Presentation: tabular and graphical, including histogram and ogives, consistency and independence of data with special reference to attributes.

Unit III : Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, coefficient of variation.

Reference: 1.Gupta S.C, Kapoor V.K : Fundamentals of Mathematical Statistics-4th Edition(2008):Sultan Chand and Sons.

2.Goon A.M, Gupta M.K And Dasgupta B- Fundamentals of Statistics-Vol.I and II,8th Edition, The World Press.