

**PRR&VSGOVT.COLLEGE,
VIDAVALURU**

Department of Statistics

Course Outcomes

SEMESTER –I

By the end of the Course during the First Semester with 4 theory and 2 Practical hours a week and 5 credits a Semester, students will

CO1 : 1.Acquire knowledge of various types of data, their organisation and evaluation of summary measures such as measures of central tendency and dispersion

CO2 : Students will acquire ability to distinguish between random and non-random experiments

CO3 : To understand and utilize basic concepts of probability including independence and Conditional Probability to calculate, interpret and communicate event probabilities.

CO4 : To learn and apply the properties of Mathematical expectation and variance operators.

CO5 : To interpret the mean of random variables interms of the law of Large numbers.

Course Outcomes

SEMESTER – II

By the end of the Course during the Second Semester with 4 theory and 2 Practical hours a week and 5 credits a Semester, students will

CO1 : Acquire knowledge of important discrete distributions such as Binomial, Poisson, Geometric, Negative Binomial and Hypergeometric and their interrelations.

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CO2 : Able to analyze the assumptions of discrete distributions.

CO3 : Able to recognize the most appropriate probability techniques of the random variables of the Geometric and Exponential nature.

CO4 : Able to approximate Binomial probabilities using a Normal Distribution, incorporating a continuity correction as appropriate.

Course Outcomes

SEMESTER – III

By the end of the Course during the Third Semester with 4 theory and 2 Practical hours a week and 5 credits a Semester, students will be able to

CO1 : To identify a possible relationships in Bivariate data from a scatter plot.

CO2; To recognize and evaluate the relationship between two quantitative variables through simple linear correlation and regression.

CO3 : To concept of random sample from a distribution, sampling distribution of a statistic, standard error of important estimates such as mean and proportions.

CO4 : Gain Knowledge about important inferential aspects such as point estimation and Interval estimation.

Course Outcomes

SEMESTER – IV

By the end of the Course during the Third Semester with 4 theory and 2 Practical hours a week and 5 credits , This course will acquaint the students

CO1 :With various basic concepts on sampling distributions and large sample tests based on normal distribution,

CO2; To understand the concept of the hypothesis and tests of significance.

CO3 : Compare statistics and make statistically valid conclusions about the parameters regarding their differences.

CO4 : To understand and analyze various methods of Non-parametric tests.

Course Outcomes

SEMESTER – V (Paper -5)

By the end of the Course during the Third Semester with 4 theory and 2 Practical hours a week and 5 credits a Semester, students will be able to

CO1 : Get an idea of conducting the sample surveys and selecting appropriate sampling techniques .

CO2: knowledge about comparing various sampling techniques.

CO3: Carry out one way and two way Analysis of Variance,,

CO4: Use appropriate experimental designs to analyze the experimental data

CO5 : To examine Non probability applications in sampling theory.

CO6 : To perform the appropriate analysis of comparative experimental units.

SEMESTER – V (Paper -6)

CO1 : To assess the quality of each commodities.

CO2: To evaluate conformity of goods before delivery from an industry.

CO3: understand single and double sampling inspection plans, OC and ASN functions.

CO4 : To analyze reliable raw goods from an industry.

CO5: By implementing probability theory to examine reliability.

Course Outcomes

SEMESTER – VI (Paper -7)

CO1 : To analyze chronological data for understanding forecasting behavior .

CO2; To observe economical booms in any business sector.

CO3 : To analyze Dearness allowance and cost of living index.

CO4: To interpret Purchasing power of money using market commodity prices.

CO5 ; To assess Birth and Death rates and to analyze reproduction rates for population growth.

SEMESTER – VI (Paper -8 C1)

By the end of the Course during the Third Semester with 4 theory and 2 Practical hours a week and 5 credits a Semester, students shall get exposed to

CO1: To understand optimization techniques using OR tools.

CO2: graphical and simplex method of solving linear programming problem (LPP) for finding degenerate, unbounded, alternate and infeasible solutions

CO3: To acquire knowledge regarding Slack, Surplus and Artificial variables.

CO4: To evaluate shortest route which covers all destinations of Travelling salesman.

CO5: To interpret minimum cost of transporting item from Source and Destination.