

DEPARTMENT OF STATISTICS

About the Department:

The department of Statistics was established in the year 1983 at Veerashaiva College, Bellary. Dr.H.Basanna was instrumental in the establishment of this department. Initially Statistics was one of the optional subjects in arts course with the combination of Economics, Mathematics and Statistics (EMS). In the year 2001 Statistics was introduced as one of the optional subjects in Science course with the combination of Mathematics, Computer Science and Statistics (SMCs) and the other combination Physics, Mathematics and Statistics (PMSt).

Vision:

Encourage students to take up higher education in field of Statistics and its applied areas to increase the applications of Statistics in natural, social and physical sciences.

Mission:

- a. To provide learners with the core knowledge required for statistical application.
- b. To acquaint learners with the use of statistics in applied sciences and industries.
- c. To provide hands – on training in selected areas of statistics with software's and its applications to other disciplines.

Course Description:

A course deals with statistical concepts including measures of central tendency and dispersion, probability distributions, the Central Limit Theorem, Sampling, Estimation, Hypothesis testing, Analysis of Variance, Correlation and Regression analysis, Multiple Regression and Statistical Forecasting.

Course Objectives:

The objective of this course is to provide an understanding for the graduate students on statistical concepts to include measurements of location and dispersion, probability, probability distributions, sampling, estimation, hypothesis testing, regression, and correlation analysis, multiple regression and business/economic forecasting. By completing this course the student will learn to perform the following:-

- 1) How to calculate and apply measures of location and measures of dispersion -- grouped and ungrouped data cases.
- 2) How to apply discrete and continuous probability distributions to various business problems.

- 3) Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases. Understand the concept of p-values.
- 4) Learn non-parametric test such as the Chi-Square test for Independence as well as Goodness of Fit.
- 5) Compute and interpret the results of Bivariate and Multivariate Regression and Correlation Analysis, for forecasting and also perform ANOVA and F-test. Further, understand both the meaning and applicability of a dummy variable and the assumptions which underline a regression model. Be able to perform a multiple regression using Computer software.

Goals:

The Department will

1. Build and enhance computational skills necessary in today's society.
2. Develop the student's ability to critically interpret numerical and graphical data.
3. Develop and enhance the students' problem solving skills.
4. Encourage and reinforce the critical thinking skills of the students.
5. Develop the students' ability to intelligently communicate mathematical results in both a written and oral format.

Faculty:



Sri. C.G. Sajjan, Assoc. Prof. in Statistics, Sri.H.Jayaprakash Goud, Principal and Sri.D.T.Janwad, Assoc. Prof. in Statistics.

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
D.T.JANWAD	M.Sc.,	Associate Professor	Demography	30	--
C.G.SAJJAN	M.Sc., M.Phil.,	Associate Professor	Demography	29	--