Telangana Social Welfare Residential Degree College for Women, Nirmal

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DEPARTMENT OF STATISTICS
PROGRAMME & COURSE OUTCOMES OF
B.SC STATISTICS UNDER CBCS

PROGRAMME OUT COMES:

1. Students learn different techniques used in Industries and research used for carrying the analysis.

2. Students will be well acquainted with various fields in statistical knowledge is useful.

3. Students learn the team work while completing the project work.

4. Students will formulate complete, concise, and correct mathematical proofs.

COURSE OUT COMES

SEMESTER –I

DESCRIPTIVE STATISTICS AND PROBABILITY

On the completion of the course, Students will be able to:

1. To tabulate statistical information given in descriptive form and to use graphical techniques to interpret

2. To compute various measures of central tendency, dispersion, skewness and kurtosis.

3. To find the probabilities of events.

4. Proofs of some basic theorems of probability theory

SEMESTER –II

PROBABILITY DISTRIBUTIONS

On the completion of the course, Students will be able to:

1. To fit various discrete and continuous probability distributions and to study various real life situations.

2. It is also defined based on the underlying sample space as a set of possible outcomes of any random experiment.

3. Understand the probability distribution of bivariate random variables and the terms marginal distributions, conditional distributions, marginal, joint.

SEMESTER –III

STATISTICAL METHODS AND THEORY OF ESTIMATION

On the completion of the course, Students will be able to:

1. List the ideal properties of point estimators of an unknown parameter of a distribution and select the best estimators using different properties.

2. Determine estimators of unknown parameters using methods like MLE, Method of moments etc.

3. Need for statistical methods in medicine ,Public health and Biology.

4. Differentiate between classical and Bayesian inference

SEMESTER –IV

STATISTICAL INFERENCE

On the completion of the course, Students will be able to:

1. The student has basic theoretical knowledge about fundamental principles for statistical inference.

2. The student has knowledge about construction of point and interval estimators, and hypothesis testing; and about the evaluation of these estimators and tests.

3. The measurable functions, convergence and dominated convergence theorems and its applications.

SEMESTER –V

APPLIED STATISTICS-I

On the completion of the course, Students will be able to:

1. Ability to design, use, and interpret control charts for variables and attributes.
2. Knowledge of carrying out a sample survey and to remember probability applications in sampling .
3. Knowledge of stratified and systematic sampling and to compare various sampling techniques.
4. Understand time series data, its components and its applications to various fields. Fitting and plotting of growth curves, trend and also measurement of seasonal indices.

SEMESTER –VI

APPLIED STATISTICS-II

On the completion of the course, Students will be able to:

1. Identify situations where One way and Two way ANOVA is applicable and to interpret ANOVA table.
2. Use appropriate experimental designs to analyze experimental data.
3. Understand the notation and formulae concerning the use and construction of index numbers.
4. Assess Birth and Death rates and to analyze reproduction rates for population growth