

S.Y.B.COM

Semester -IV

Statistics: Applied Statistics (SEC Paper-II) - Credit 2

Course Outcomes (COs)

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

CO1	Understand the basic concept of process control.
CO2	Understand the concept of product control.
CO3	Understand the concept of testing of hypothesis.
CO4	Understand the use of hypothesis for large sample.
CO5	Apply the course content for the further study of statistics.

OBJECTIVE

The main objective of this course is to provide fundamental knowledge of process control, product control and testing of hypothesis. The purpose is to make students aware about the application of statistical techniques for research.

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Sr. No.	Course Inputs (As per UGC Model Curriculum)	Weightage	Marks
Unit -1	Introduction of Demography: ➤ Meaning ➤ Uses ➤ Method of collecting demographic statistics ➤ Defects of demographic statistics ➤ Life Tables: ➤ Concepts of Life tables & It's Advantages ➤ Assumption related to life tables ➤ Complete and Abridged ➤ Construction of life tables& It's Applications	40%	10
Unit 2	Testing of Hypothesis (1) Theory of testing of hypothesis ➤ Simple and composite hypothesis ➤ Null and Alternative hypothesis, critical region ➤ Two types of errors ➤ Level of significance and power of a test (2) Large sample test ➤ Large sample test for Attributes ➤ Large sample test for Variables	60%	15
	Total	100%	25

Reference Books:

1.	Barkley G.W/(1958)	"Techniques of population analysis " John Wiley & Sons Inc First Ed
2.	Pathak K.B and F. Ram (1998)	"Techniques of Demographic Analysis " 2nd Ed, Himalaya Publishing House
3.	Cox P.R	"Demography " Cambridge University Press
4.	D.C.Sanchaeti and V.K.Kapoor	Statistics (theory , Method and Application) Sultan Chand & Son
5.	D N Elhance	Fundamental of Statistics
6.	Goon.A.M.Gupta, M.k.andDasgupta.B.(2008)	Fundamental of Statistics, Vol. II, 9th Edition World press.

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