B. Com (Hons.) (Accounting and Taxation)

DISCIPLINE SPECIFIC COURSE (DSC)

SEMESTER VIII

(BCB44804T): COMPUTERISED STATISTICAL DATA ANALYSIS

Max. Marks: 100
External: 70
Internal: 30
Pass: 40%
Credits: 6

Objective:

Equip the students with the use of software and electronic packages in the process of analysis of statistical data and testing significance for the intended use.

Course Outcomes:

CO 1:	Learners will understand the concepts of probability and distributions in some case studies.
CO 2:	Learners will evaluate Mathematical Expectations and Discrete Probability Distributions.
CO 3:	Learners will analyze the testing hypothesis of Sample Mean and Sample Proportion.
CO 4:	Learners will be able to implement the methods and techniques in industry.

SECTION A

BLOCK 1: Sampling Theory

Sampling Theory and Survey Instruments: Meaning, Importance and Limitations, Probability andNon- Probability Sampling Techniques; Identification of Respondents;

BLOCK 2 Survey Instruments Development of Survey Instruments, Testing the survey instruments and Collection of data through survey; Secondary data sources and Collection of data from secondary sources; Reliability and Validity of data.

BLOCK 3: Tests of Significance

Testing of Significance of Results: Parametric and Non-parametric tests; testing the significance of results using Parametric and non-parametric tests; Testing the hypothesis and Interpretation of results.

SECTION B

BLOCK 4: Data Analysis using Microsoft Excel

Data Analysis using Microsoft Excel Spreadsheet - Concepts, managing worksheets; Formatting, Conditional formatting, entering data, Editing, Printing and Protecting worksheets; Handling operators in formula, Project involving multiple spreadsheets, Organizing Charts and

Graphs; Working with Multiple worksheets; Controlling worksheet views, Naming cells and cell ranges.

BLOCK 5: Data Analysis using Statistical Package

Data Analysis using Statistical Package: User Manual, preparing data, fusing or analysis, basicusage of software (import/export of data, commands like open, save, etc., Applying Basic Statistical Analysis; Quantitative and Qualitative data Analysis, Descriptive analysis, Testing the significance of one variable, two variables and multi-variables data; Security and control of information systems.

BLOCK 6 ethical and social dimension in the use of technology for data analysis.

Ethical and Social dimensions in the use of technology for data analysis.

Suggested Readings:

1. Kumar, Ranjit (2014). *Research methodology: A step-by-step guide for beginners*. New Delhi: Sage Publications.
2. Creswell, John W. (2009). *Research design: Qualitative, quantitative and mixed method approaches*. (3rd Ed.). London: Sage Publications.
3. Gaur, Ajai S. & Gaur, Sanjaya S. (2010). *Statistical methods for practice and research*. New Delhi: Response.
4. Kothari, C.R. (2011). *Research methodology: methods and techniques*. (3rd ed.). New Delhi: New Age International.
5. Mukherjee, Partha Nath (2000). *Methodology in social research*. New Delhi: Sage Publications.

INSTRUCTIONS FOR THE PAPER SETTER/EXAMINER:

1. The syllabus prescribed should be strictly adhered to.
2. The question paper will consist of three sections: A, B, and C. Sections A and B will have four questions from the respective sections of the syllabus and will carry 10 marks each. The candidates will attempt two questions from each section.
3. Section C will have fifteen short answer questions covering the entire syllabus. Each question will carry 3 marks. Candidates will attempt any ten questions from this section.
4. The examiner shall give a clear instruction to the candidates to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.
5. The duration of each paper will be three hours.

INSTRUCTIONS FOR THE CANDIDATES:

Candidates are required to attempt any two questions each from the sections A and B of the question paper and any ten short questions from Section C. They have to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated