CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
SCHOOL OF MANAGEMENT STUDIES

MBA I Semester

Subject Code: 23MBC105 **Statistics Lab**

Lab In-charges:

Dr. Rakhee Renapurkar, Assistant Professor, CBIT SMS
Dr. M. Sangeetha, Assistant Professor, CBIT SMS

Instruction	4 Hours per week
Duration of Semester End Examination	3 Hours
Semester End Examination	50 Marks
Continuous Internal Evaluation	50 Marks
Credits	2

Course Objectives:

1. To demonstrate the management and analysis of data using graphs, tables, worksheets.
2. To familiarize the students with advanced Excel Tools for conduction of Data Analysis.
3. To demonstrate descriptive statistics, inferential statistics and its usage in Decision Making in different disciplines.

Course Outcomes:

Upon Completion of this Course, Students will be able to:

1. To enable the practice of MS-Excel.
2. To apply advanced Excel Tools for conduction, evaluation of Data Analysis using Pivot Tables and Pivot Charts.
3. Analyze the Data using Descriptive Statistical tools.
4. To conduct various parametric and Non-parametric Tests using MS Excel.
5. Apply the statistical concepts to forecast the trends in business outcomes.

Prerequisites for attending lab

- Ability to operate a computer confidently, including use of the keyboard, mouse, and basic file handling
- Ability to create, save, rename, and open files and folders
- Ability to work comfortably in a Windows operating environment
- Awareness of the Excel interface, including rows, columns, and cells
- Basic data entry skills

- Ability to navigate Excel tabs, ribbons, and menus
- Understanding of basic arithmetic operations (addition, subtraction, multiplication, and division)
- Knowledge of fractions, percentages, and ratios
- Ability to follow step-by-step laboratory instructions
- Ability to perform calculations using Excel rather than manual methods

Purpose of Lab:

The Statistics Labs is designed to provide hands-on experience in data analysis and data presentation, enable students to better understand and apply statistical tools for effective decision-making in the real-world business situations. This practical exposure helps students understand how statistics can be appropriately employed, recognize the limitations of statistical analysis, and effectively interpret and present data.

Lab Sessions:

- The laboratory sessions will involve the use of MS Excel**.**
- The sessions will demonstrate the differences between and applications of descriptive and inferential statistics**.**
- In the laboratory, students will use Excel functions and formulas to analyze various data sets**.**
- Whenever possible, additional experiments/worksheets will be provided to clarify concepts and enhance student understanding.
- Lab observations and execution will be checked and corrected immediately, and students will be informed of any mistakes or errors committed.
- Each session's execution and output must be maintained in soft copy and/or hard copy form**.**
- Students must submit the laboratory record at the time of the end-semester examination.