# Faculty of Commerce and Management
# Bachelor of Commerce with Honors
# (W. E. F.: 2023-24)
Document ID: SUTEFCMB-01

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| **Name of Faculty** | : | Faculty of Commerce and Management |
| **Name of Program** | : | Bachelor of Commerce with Honors |
| **Course Code** | : | 1BCM01 |
| **Course Title** | : | Foundations of Statistics |
| **Type of Course** | : | Professional Core (PC) |
| **Year of Introduction** | : | 2023-24 |

| | | | |
|---|---|---|---|
| **Prerequisite** | : | | - |
| **Course Objective** | : | | Fundamental concepts and techniques of statistics as they apply to business and commerce. The objective of the course is to equip students with the necessary skills and knowledge to effectively collect, analyze, interpret, and present data in a business context. They should be able to make informed decisions based on statistical evidence and effectively communicate their findings to others. |
| **Course Outcomes** | : | | At the end of this course, students will be able to: |
| | | CO1 | Revising the basics of Statistics. |
| | | CO2 | Comprehension of numerical data. |
| | | CO3 | Applications of statistical measures. |
| | | CO4 | Interpretation based on applications. |
| | | CO5 | Revising the concept of probability. |
| | | CO6 | To provide practical exposure on Binomial, Poisson and Normal probability distribution |

**Teaching and Examination Scheme**

| Teaching Scheme (Contact Hours) | | | Credits | Examination Marks | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Theory Marks | | Practical Marks | | Total |
| **L** | **T** | **P** | **C** | **SEE** | **CIA** | **SEE** | **CIA** | **Marks** |
| 4 | 0 | 0 | 4 | 100 | 50 | 00 | 00 | 150 |

*Legends: **L**-Lecture; **T**–Tutorial/Teacher Guided Theory Practice; **P** – Practical, **C** – Credit, **SEE** – Semester End Examination, **CIA** - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.))*

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**Course Content**

| Unit No. | Topics | Teaching Hours | Weightage | Mapping with CO |
|---|---|---|---|---|
| 1 | **Introduction of statistics**<br>Meaning and definition of Statistics, Scope and Limitation of Statistics.<br>**Review of Data Collection**<br>Primary and Secondary Data, Methods of collecting Primary Data, Sources of Secondary Data.<br>**Classification**<br>Function of Classification, Rules for Classification, Bases of Classification.<br>**Frequency Distribution**<br>Array, Discrete or Ungrouped Frequency Distribution, Grouped Frequency Distribution, Continuous Frequency Distribution, Basic principles for forming a grouped frequency distribution, Cumulative Frequency Distribution.<br>**Tabulation**<br>Meaning and importance, Parts of a table, Requisites of a Good Table, Types of Tabulation. | 15 | 25% | CO1 CO2 |
| 2 | **Measures of Central Tendency.**<br>Meaning and Objectives.<br>-Mean (Simple, Weighted, Harmonic, Geometric).<br>-Median.<br>-Mode.<br>-Partition values.<br>**Measures of Dispersion.**<br>-Meaning and Objectives.<br>- Range.<br>-Quartile Deviation.<br>-Mean Deviation.<br>-Standard Deviation.<br>**Moments, measures of Skewness and Kurtosis**. | 15 | 25% | CO3 CO4 |
| 3 | **Probability Theory.**<br>-Three approaches to defining Probability.<br>-Addition and Multiplication Laws of Probability.<br>-Conditional Probability.<br>-Bayes' Theorem.<br>-Random Variable and its Probability Distribution.<br>-Expectation and Variance of a Random variable. | 15 | 25% | CO5 |

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| 4 | **Theoretical Probability Distribution.** <br> -Discrete Probability Distributions: Binomial and Poisson <br> -Continuous Probability Distribution: Normal | 15 | 25% | CO6 |

| Suggested Distribution of Theory Marks Using Bloom's Taxonomy | | | | | |
|---|---|---|---|---|---|
| **Level** | Remembrance | Understanding | Application | Analyse | Evaluate | Create |
| **Weightage** | **24** | **50** | **25** | **0** | **0** | **0** |

*NOTE: This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.*

**Reference Books**

| Sr. No. | Name of Reference Books |
|---|---|
| 1 | Fundamentals of Statistics by D.N.Elhance |
| 2 | Statistical Methods by S.C.Gupta |
| 3 | Business Statistics by J.K.Sharma |