ANNEXTURE V
Syllabus for Two Credit Course- From the academic year- 2024-2025
Name of the Course: Statistics Minor: Semester II- Descriptive Statistics

Programmes

Bachelor of Commerce (Management Studies)
Bachelor of Commerce (Accounting & Finance)
Bachelor of Commerce (Banking & Insurance)
Bachelor of Commerce (Financial Markets,
Bachelor of Science (Information Technology)

Sr. No.	Heading	Particulars
1	**Description of the course:**	Descriptive statistics is a branch of statistics that involves summarizing and describing data. It focuses on organizing, presenting, and analyzing data sets to uncover patterns, trends, and relationships Descriptive statistics helps in summarizing large amounts of data into manageable and interpretable forms, facilitating data exploration and communication Graduates with expertise in descriptive statistics have various career opportunities in industries such as market research, data analysis, business intelligence, healthcare, finance, and consulting.
2	**Vertical :**	Minor
3	**Type :**	Theory / Practical
4	**Credit:**	2 credits (1 credit = 15 Hours for Theory or 30 Hours of Practical work in a semester)
5	**Hours Allotted :**	30 Hours
6	**Marks Allotted:**	50 Marks (20 (CE) + 30 (SE))
7	**Course Objectives:**	

7. **Course Objectives**:

1. Learn techniques for collecting, organizing, and summarizing data, including methods for data entry, coding, and tabulation
2. Understand and compute measures of central tendency, including the mean, median, and mode, to describe the central or typical value of a data set

8	**Course Outcomes**:
	1. Students will be able to collect, organize, and summarize data effectively using appropriate methods and techniques
	2. Students will be proficient in calculating and interpreting measures of central tendency, including the mean, median, and mode, to describe the typical value of a data set
9	**Modules**:-
	Module 1: Statistical Survey (15 Hours) ● Introduction, Population , Population Unit, Sample, Sample unit, Parameters and Statistic, Estimators ● Standard Error, Mean Square Error, Census Survey and Sample Survey ● Steps in conducting the Statistical Survey, Personal Survey, Telephonic Survey, Internet Survey And Designing Appropriate Questionnaire ● Types of Questions, Structured, Closed-Ended, Unstructured and Open Ended
	Module 2: Data Collection and Sampling (15 Hours) ● Types Of Data, Primary and Secondary Data and Methods of Primary Data Collection ● Concept Of Sampling, Sampling with and without Replacement and Lottery Method ● Simple Random Sampling, Estimation Of Population Mean And Variance ● Stratified Sampling, Need Of Stratified Sampling, Advantages Of Stratified Sampling, Expectation and Variance
10	**Reference Books** ● Murthy, M.N. Sampling Theory and Methods. Statistical Publishing Society, 1967. ● Sukhatme, P.V., and B.V. Sukhatme. Sampling Theory of Surveys with Applications. Iowa State University Press, 1967. ● Singh, D., and F.S. Chaudhary. Theory and Analysis of Sample Survey Designs. Wiley Eastern Ltd, 1986.
11	**Internal Continuous Assessment: 40%**	**Semester End Examination : 60%**
12	**Continuous Evaluation through:**	**Assignment and Practical**

13	**Format of Question Paper:**
	 Q. 1 Attempt any Three (15 marks)
	    a.
	    b.
	    C.
	    d.
	 Q. 2 Attempt any Three (15 marks)
	    a.
	    b.
	    C.
	    d.