M. G. Science Institute, Ahmedabad

Autonomous | Affiliated to Gujarat University, Ahmedabad

(Managed by The Ahmedabad Education Society)

Department of Statistics

Bachelor of Science (Hons.) in Statistics B.Sc. (Hons.) Statistics 4 Year, 8 Semester Full-Time Programme Choice Based Credit System (CBCS) & Grading System Outcome-Based Education Pattern (Effective from Academic Year 2024-25)



B. Sc. Sem I Statistics

Semester: I		Course Title: Statistics Practical-I		Credit: 4			
Course No.: STM112				Hours: 8/week			
Course Outcomes: On successful completion of the course the learner will be able to							
СО	COGNIT	IVE	COURSE OUTCOMES				
	ABILITI	ES					
CO 1	REMEMBERING Reca		Recall the concept of Statistical Population and Sa	ample.			
			Recall the types of data and when to use which ty	pe of data.			
			Remember when to use which type of charts and	graphs.			
CO 2	UNDERS	ΓANDING	Understand various measures of central tende	ency, dispersion,			
			skewness, and kurtosis. Summarize the informa	ation in the data			
			using different charts and summary measures.				
CO 3	APPLYIN	G	Describe the sample data with suitable ce	ntral tendency,			
			dispersion, skewness, and kurtosis measures.				
CO 4	ANALYS	ING	Analyze the sample data from various domains thr	ough exploratory			
			data visualization and summary measures. An	alyze qualitative			
			data.	•			
CO 5	EVALUA	TING	Organize and summarize the information by suit	able presentation			
			and computations.				
CO 6	CREATIN	ſG	Students can visualize the data graphically and su	mmarize the data			
			numerically for real-life data analysis problems.				

Detailed Syllabus for STM112 Statistics Practical-I

CO-PO Mapping

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	1		
CO 2	1	1	1		
CO 3	1	2	1		
CO 4		1	2		
CO 5	1	1	2		
CO 6		2	1	1	1

Part A (Manual)

Sr.	Title of the Practical	No. of Hours
No.		of Teaching
1	Methods of Classification and Construction of Frequency Distribution.	60
	(One-way)	
2	Methods of Classification and Construction of Frequency Distribution.	
	(Two-Way)	
3	Present the data using Bar chart (Single, multiple, divided)	
4	Present the data using Pie chart	
5	Present the data using scatter diagram,	
6	Present the data using frequency curve, frequency polygon and ogive	
	curve.	
7	Computation of measures of central tendency & dispersion	
8	Computation of partition values and their applications.	
9	Computation of moments and their applications.	
10	Computation of coefficient of skewness and kurtosis and its interpretation	

Part B (Using MS Excel)

Sr. No.	Title of the Practical	No. of Hours of Teaching
1	Methods of Classification and Construction of Frequency Distribution.	<u>60</u>
	(One-way)	
2	Methods of Classification and Construction of Frequency Distribution.	
	(Two-Way)	
3	Present the data using Bar chart (Single, multiple, divided)	
4	Present the data using Pie chart	
5	Present the data using scatter diagram,	
6	Present the data using frequency curve, frequency polygon and ogive	
	curve.	
7	Computation of measures of central tendency & dispersion	
8	Computation of partition values and their applications.	
9	Computation of moments and their applications.	
10	Computation of coefficient of skewness and kurtosis and its interpretation	