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

(Effective from Academic Year 2024-25)

Outcome-Based Education Pattern



Semester: III	Course Title: Basics of Jamovi	Credit: 2
Course No.: STSEC236		Hours: 3/week

Course Outcomes: On successful completion of the course the learner will be able to

CO	COGNITIVE	COURSE OUTCOMES
	ABILITIES	
CO 1	REMEMBERING	Remember Jamovi's user interface, its layout, menus, and basic
		functions.
CO 2	UNDERSTANDING	Understand the statistical analysis workflow in Jamovi, including
		importing data, summarizing data, and selecting appropriate
		summary measures.
CO 3	APPLYING	Apply Jamovi to perform descriptive statistics and data
		visualization.
CO 4	ANALYSING	Analyze datasets in Jamovi to identify trends, relationships, and
		patterns using data visualization.
CO 5	EVALUATING	Evaluate the output generated by Jamovi and interpret statistical
		results.
CO 6	CREATING	Execute complete statistical workflow in Jamovi.

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

Unit	Detailed Syllabus	No. of Hours of
		Teaching
I	Introduction to Jamovi	15
	 Understanding the Navigation Bar and Features of Jamovi 	
	 Navigating and Understanding User interface (UI) 	
	Types of Data, Measurements of Scale	
	 Preparing a data file in Jamovi and entering the data 	
	 Importing data from CSV, EXCEL format. 	
	Data Management and Data Wrangling in Jamovi	
	 Compute the variable from the existing variable(s). 	
	 Use of some functions to compute a new variable using 	
	functions like square root, logarithm, z score	
	 Transform existing variable to new variable 	
	 Transform existing variable to new variable by recoding 	
	• Filtering cases: filter rows, filter with multiple conditions,	
	filter with conditions on multiple variables.	
	Descriptive data analysis	
	 Measures of central tendency, Measures of Dispersion, 	
	Percentiles, Skewness & Kurtosis	
	 Exporting tables and plots 	
	Frequency distribution	
	Normality test	

	 Categorical data analysis, Tabulation, Frequency tables, Contingency tables 	
	Presentation of Data	
	 Simple, Multiple, stacked bar plot 	
	Histogram, density plot, box-whisker plot, violin plot	
	Scatter diagram	
II	Practicals Based on Unit I	30

Suggested References:

- 1. The jamovi project (2022). jamovi. (Version 2.3) [Computer Software]. Retrieved from https://www.jamovi.org.
- 2. Navarro DJ and Foxcroft DR (2022). learning statistics with jamovi: a tutorial for psychology students and other beginners. (Version 0.75). DOI: 10.24384/hgc3-7p1