



**PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE**

Autonomous
Siddhartha Nagar, Vijayawada-520010
Re-accredited at 'A+' by the NAAC

23STMAP122: Descriptive Statistical Data Analysis - SPSS

Offered to: B.Sc. Honours (Statistics)

Course Type: Major 4 (P)

Year of Introduction: 2023-24

Semester: II

Credits: 1

30Hrs

Course Prerequisites: Student required basic knowledge in Mathematics.

Course Description: This course gives Practical and working knowledge of Excel to students with the aim of getting to use data analysis

Course Objectives:

- 1) To analyze data pertaining to discrete and continuous variables and to interpret the results.
- 2) To evaluate the properties of mathematical expectation.

Learning Outcomes: At the end of the course, the student will able to:

- 1) To acquire the knowledge of the univariate and bivariate data analysis
- 2) To learn the measure of randomness mathematically by using expectations.
- 3) To get the familiarity about the generating functions, law of large numbers and central limit theorem, further to apply in research and allied fiends.

Course Outcomes:		
Course Outcome		Program Outcomes Mapping
CO 1	Upon successful completion of this course, students should have the knowledge and skills to: Understand the SPSS packages and describing a variety of statistical variables in SPSS	PO1
CO 2	integrate and access the data base from different source of file format.	PO2
CO3	Construct various charts and diagrams in SPSS	PO2
CO 4	Construct the frequency tables in SPSS	PO2
CO 5	Recommend the best statistical tool for basic statistical analysis.	PO2

CO-PO MATRIX								
	CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
23STMAP122	CO1	3						
	CO2		3					
	CO3		2					
	CO4		2					
	CO5		3					

List of practical's

- 1) Data entry, Import and Export the data sets from various formats to SPSS
- 2) Construction of frequency table for univariate categorical data using SPSS
- 3) a) Construction of pie chart for nominal data using SPSS
b) Construction of pie chart for ordinal data using SPSS
- 4) a) Construction of bar chart for nominal data using SPSS
b) Construction of bar chart for ordinal data using SPSS
- 5) Create grouped frequency table from given raw data (non categorical) using SPSS
- 6) Computation of descriptive statistics for continuous data using SPSS
- 7) Construction of histogram for continuous data using SPSS
- 8) Construction of Box plots using SPSS
- 9) Construction of Crosstabs using SPSS

Question Paper Pattern for Core Lab Courses

(A) Semester End Lab Examination

23STMAP122: Descriptive Statistical Data Analysis - SPSS

Max.Marks: 35

Max.Time: 3Hours

Pass. Min: 14

I. Answer the following.

Max. Marks: 30

Q1

Q2

Q3

Q4

Q5

II Viva

3 Marks

III Record

2 Marks

(B) CONTINUOUS ASSESMENT (Internal)

15 MARKS

TOTAL : (A)+(B) =

50MARKS
