PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE
Autonomous
Siddhartha Nagar, Vijayawada–520010
Re-accredited at 'A+' by the NAAC

23STMAP121: Descriptive Statistical Data Analysis - Excel

Offered to: B.Sc. Honours (Statistics) **Course Type:** Major 3 (Core -Practical)

Year of Introduction: 2023-24 **Year of offering: 2023 - 2024**

Semester: II 30 Hrs **Credits: 1**

Course Prerequisites : 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 train students to do the data analysis in excel

2) To compute various measures of central tendency, dispersion, skewness and kurtosis.

Course Outcomes:		
Course Outcome	Upon successful completion of this course, students should have the knowledge and skills to:	**Programme Outcomes Mapping**
CO 1	Computation of various statistical measures of dispersion.	PO 2
CO 2	Computation of central and non central moments.	PO 2
CO3	Analyzing the qualitative data	PO 2
CO4	Applying the concepts of probability in real life examples	PO2
CO5	Applying the concepts of probability in real life examples	PO 2

CO-PO MATRIX							
COURSE CODE	**CO-PO**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**
23STMAP121	**CO1**		**3**				
	CO2		**3**				
	CO3		**3**				
	CO4		**3**				
	CO5		**3**				

List of practical's

1. Computations of Corrected mean and Standard deviation, combined mean and Standard deviation and also using MS-Excel. (L-3, CO-1)
2. Computation of non-central, central moments, and for ungrouped data and also using Excel. (L-3, CO-2)
3. Computation of non-central, central moments, and Sheppard's corrections for grouped data and also using MS-Excel (L-3, CO-2)
4. Computation of Karl Pearson's and Bowley's Coefficients of Skewness and also using Excel (L-3, CO-2)
5. Computation of coefficient of Kurtosis and also using Excel (L-3, CO-2)
6. Computation of Yule's coefficient of association and colligation and also using Excel. (L-3, CO-3)
7. Computation of Pearson's, Tschuprow's coefficient of contingency. (L-3, CO-3)
8. (a) Computation of Basian probabilities. (b) Verification of Boole's inequalities.

Question Paper Pattern for Core Lab Courses

(A) Semester End Lab Examination

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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**

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