

<i>DEPARTMENT OF STATISTICS</i>			<i>Certificate Course</i>				
Course Type	Course Code	Course Code Course Title	Credits	Total Contact Hours	CIA	Ext	Total
Value Added Course		Statistical Packages for Social Sciences	2	30			

Learning Objectives:

- ❖ To introduce the statistical Package for Social Sciences
- ❖ To understand the bases of the packages SPSS and statistics

Learning out comes:

- ❖ Understand the main features of SPSS
- ❖ Perform descriptive analyses with SPSS
- ❖ Perform common parametric and non-parametric tests
- ❖ Perform simple regressions and multivariate analyses

Unit – I

Introduction to Statistics – Population and Sample – Variables and Scales – frequency Distribution – Normal Distribution – Statistics and Parameters – Hypothesis testing.

Unit – II

Introduction to SPSS - Launching SPSS – Opening a data file in SPSS – SPSS Data Editors – Statistical Analysis – Editing and Manipulating data – Missing Values – Editing and Copying SPSS output – Closing SPSS.

Unit – III

Descriptive Statistics – Measuring Central tendency – Measure of Dispersion – Descriptive Statistics with SPSS – Charts and Graphs.

Unit – IV

Comparing Averages – Parametric tests: Students t test – two sample t test – Paired t test – ANOVA – Nonparametric tests: Mann-whitney test – Wilcoxon Matched – Paris sample test.

Unit – V

Correlation analysis – Statistical Association between variables – Correlation – Simple and Multiple – Type of correlation – Graphical Methods – Pearson’s correlation coefficient – Bivariate analysis with SPSS – Rank Correlation – Multiple correlation — Simple and Multiple Regression analysis – Chi square test.

Books for Study

1. Rajathi, A. and Chandran, P. SPSS for you, MJP Publishers, Chennai (2010).

Books for References

1. Mishra, A. K. A Handbook on SPSS for research Work, Himalaya Publication House (2019).
2. Andy Field, Discovering Statistics Using SPSS, SAGE Publications, London (2006).