*M2ECO01-Skill- 01*

## MA ECONOMICS
## SEMESTER II
## SKILL COURSE PAPER-01
## BASIC ECONOMIC ANALYSIS WITH SPSS

**Course Outcome:**

-

**CO1:** A Student of Economics must have knowledge of data analysis through software. This course aims at giving the exposure of data analysis package SPSS and make students familiar with its applications .

**CO2:** This paper aims to skill them in analysing the data with the help of SPSS by providing hands on experience.

## UNIT I

**Introduction to SPSS**

Starting SPSS, SPSS main menus, Working with the data editor -General description, functions, menus, commands , SPSS file management.

Input and data cleaning - Defining variables, Manual input of data , Automated input of data and file import.

Data manipulation - Data Transformation, Syntax files and scripts, Output management.

Theoretical Framework: Types of Variables - Qualitative Vs. Quantitative Variables, Nominal, Ordinal, Interval and Ratio Scale Data. Hypothesis Testing, Type I and Type II Errors, Significance Level, One Tailed and Two Tailed Tests.

## UNIT-II

**Descriptive Statistics**

Basic Concepts - Measures of Central Tendency, Measures of Variability,Percentiles, Quartiles and Interquartile Range, Skewness, Kurtosis.

Using SPSS Descriptive Statistics- Frequencies, Descriptives, Explore, Crosstabs.

## UNIT- III

**Data Presentation**

Different Types of Charts- Histogram, Bar Charts, Pie, Cluster and Stacked Bar , Line Charts.
Use of SPSS in making Charts: Chart Builder, Constructing and editing Charts.

## UNIT-IV

**Correlation**

Correlation Coefficient , Pearson Correlation, Spearman Correlation, Kendall Tau B, Scatter
Plots, Partial Correlation.

## UNIT-V

**Chi - Square Test**

Basic Concepts – Chi-Square test of Independence and goodness of fit, Contingency Tables.
using SPSS Test of Independence, 2x2 Cross tabulation, Layered cross tab, Goodness of fit.

**Basic Readings:**

- Gaur A. S. & Gaur S. S (2009). Statistical Methods for Practice and Research: A guide to data analysis using SPSS, Sage Response, Second edition.
- IBM SPSS Training Manual
- Parameswaranm R. (2010).Computer Applications in Business, S. Chand and Company, New Delhi.
- Sudalaimuthu, S. & Anthony R. S. (2008), Computer Applications in Business, Himalays Publishing House, New Delhi.