

# **DEPARTMENT OF ECONOMICS**

## **VALUE ADDED COURSE**

<b>Semester</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Hours</b>
III	22UECVAC1	DATA ANALYSIS	30

### **Course outcomes:**

At the end of this course, the students will be able to

- CO.1 Students will be able to familiarize in latest data analysis software's.
- CO.2 Students will be able to understand with the process of data cleaning.
- CO.3 Students will be able to understand the different data visualization techniques..
- CO.4 Students will be able to calculate and represent summary statistics and lines of best fit
- CO.5 Students will be able to gain the knowledge on different types of data and statistical tools.

### **UNIT I**

Data Analysis: Meaning - Definition - Need - Uses – Methods, Features of Data Analysis. Software: EXCEL, SPSS, R, PYTHON, QLIKVIEW. Data Entry methods – Master table preparation, Qualitative and Quantitative Data.

### **UNIT II**

Data cleaning: Checking for outliers, Cleaning Variables name, Consistency Checks.

### **UNIT III**

Data Visualisation: Scatter Plots, line Graphs, Box plots and other Graphical formats.

### **UNIT IV**

Calculating and Representing summary Statistics and lines of best fit

### **UNIT V**

Elements of statistical inference: Calculating and plotting confidence intervals: test of population differences in population statistics Meaning of interpretation, inference. Types of Data and suitable statistical tools.

### **BOOKS FOR REFERENCES:-**

1. Levine.D., Stephan, D., Szabat k. Statistics for managers using Microsoft Excel, , (2017).
2. Wiley.Tattar, P., Ramaiah, S., Manjunath, B A course in statistics with R. (2018).

Semester	Course Code	Course Title	Hours
V	22UECVAC2	STOCK MARKET OPERATIONS	30

**Course outcomes:**

At the end of this course, the students will be able to

- CO.1 Students will be able to understand the basics of capital Market and its importance.
- CO.2 Students will be able to familiarize with various instruments in Primary Market.
- CO.3 Students will be able to understand the role and functions of Stock Exchange.
- CO.4 Students will be able to understand the process of operating Demat account.
- CO.5 Students will be able to analyze the different stock indices.

**UNIT – I**

**6 Hours**

Capital Market: Meaning & Definition- Features-Need & Importance. SEBI: Objectives- Functions.

**UNIT-II**

**6 Hours**

Primary Market: Meaning- Features- Functions – Instruments - Limitations of Primary Market.

**UNIT-III**

**6 Hours**

Stock Exchange - Meaning & Definitions – Features, Origin & Growth – Role & Functions.

**UNIT-IV**

**6 Hours**

Listing: Meaning & Definitions, Procedures. Stock Brokers- Meaning - Kinds- Functions. (Demat): Meaning – Dematerialized Securities- Procedure- Advantages & Disadvantages.

**UNIT-V**

**6 Hours**

NSE & BSE: Objectives – Features - Functions – Advantages. Security Market Indicators- Types of Indices (Sensex & Nifty).

**BOOKS FOR REFERENCE:-**

1. Dr.S.Gurusamy, Capital Markets – McGraw Hill Education India, 2<sup>nd</sup> Edition
2. V.K. Bhalla, Investment & Portfolio Management - S. Chand & Co
3. Saraj Kumar & Priyakasingh, Stock Exchange Practices –Thakur Publications

Semester	Course Code	Course Title	Hours
III	22PECVAC1	VITAL STATISTICS	30

**Course outcomes:**

At the end of this course, the students will be able to

- CO.1 Students will be able to understand the importance and uses of vital statistics.
- CO.2 Students will be able to familiarize with the concepts of fertility.
- CO.3 Students will be able to understand the measurement of Reproduction rates.
- CO.4 Students will be able to understand the measurement of mortality rates.
- CO.5 Students will be able to gain knowledge on the uses of life tables.

**UNIT- I**

**6 Hours**

Vital Statistics: Meaning – Definition –Uses of Vital Statistics-methods of Obtaining Vital Statistics – Difference between Health Statistics and Vital Statistics

**UNIT – II**

**6 Hours**

Measurement offertility: Crude Birth Rate (CBR), Specific Fertility Rate (SFR), General Fertility Rate (GFR), Total Fertility Rate (TFR).

**UNIT – III**

**6 Hours**

Reproduction rates: Gross Reproduction Rate (GRR)– Net Reproduction Rate (NRR) – Measurement Of Mortality: Crude Death Rate (CDR), Specific Death Rates (SDR),and Standardized Death Rates (SDR).

**UNIT – IV**

**6 Hours**

Infant Mortality Rate (IMR)- NeoNatal Mortality Rat (NMR) - Maternal Mortality Rate (MMR) - Natural Increase Rate (NIR) - Net Migration Rate (NMR) - Vital Index

**UNIT – V**

**6 Hours**

Life Tables:Meaning, Definition, Uses of Life Tables -Vital index

**BOOKS FOR REFERENCE:-**

1. S.P.Guptha, Statistical Methods for Economics – Sultan Chand & Sons
- RSN Pillai and Bhagavathi, Elements of Statistics - Sultan Chand & Sons, 37<sup>th</sup> Edition, 2008, Reprint 2009