

## **TEACHING PLAN FOR STATISTICAL SOFTWARE PACKAGE**

**Course: STATISTICAL SOFTWARE PACKAGE (SKILL ENHANCEMENT COURSE, SEC)**

**Credit:02**

<b>Unit</b>	<b>Topic</b>	<b>Readings</b>	<b>No. of Practical</b>
<b>1. Getting started with the Software</b>	Introduction: Data Entry, Storing and Retrieving Files, Generating New Variables; Managing Data - Listing cases, replacing missing values, computing new variables, recoding variables, selecting cases, sorting cases, merging files, Graphs - Creating and editing graphs and charts; Descriptive Statistics Procedures: Frequencies, Descriptive, Explore, Cross Tabulation.	Performing Data Analysis using IBM SPSS, Lawrence S. Meyers, Glenn C. Gamst, A. J. Guarino	Approx. 5
<b>2. Hypothesis Testing for Means</b>	T-tests: One sample test, Independent samples and paired samples t-test; ANOVA - One-way analysis of variance with post hoc analysis Two-way analysis of variance.	SPSS for Windows Step by Step A Simple Guide and Reference, Darren George and Paul Malley	Approx. 6
<b>3. Testing for Association between Variables</b>	Chi-square Test of Independence; Bivariate Correlation Analysis: Simple Scatter Plot; Correlation Coefficient: Pearson, Spearman Rho and Kendall Tau Coefficient. Factor analysis.	SPSS in Simple Steps, Kiran Pandya, Smruti Bulsari, Sanjay Sinha, Dreamtech	Approx. 6
<b>4. Regression Analysis</b>	Linear Regression: Simple Linear Regression, Multiple regression analysis with matrix scatterplot. Multiple Regression: Standard (Enter) and Stepwise Method. Binary Logistic Regression.	SPSS in Simple Steps, Kiran Pandya, Smruti Bulsari, Sanjay Sinha, Dreamtech	Approx. 6

### **Recommended Readings**

1. Performing Data Analysis using IBM SPSS, Lawrence S. Meyers, Glenn C. Gamst, A. J. Guarino, Wiley Publication
2. SPSS for Windows Step by Step A Simple Guide and Reference, Darren George and Paul Malley
3. SPSS in Simple Steps, Kiran Pandya, Smruti Bulsari, Sanjay Sinha, Dreamtech

### **Suggestive Readings**

Using SPSS in research, Dr. Radha Mohan, Neelkamal

### **Examination Scheme and Mode**

Examination scheme and mode will be as per the guidelines notified by the University of Delhi

**TEACHER: DR. DEEPIKA KUMARI**

**TEACHING PLAN FOR BA/B.COM./B.SC(H) SEMESTER – I & BC (P)**  
**SEMESTER-V**

**Course: Principles of Microeconomics I (Generic Elective, GE)**

**Course Code: ECON025**

**Credit:04**

<b>Unit</b>	<b>Topic</b>	<b>Readings</b>	<b>No. of Lectures</b>
<b>1. Introduction</b>	Problem of scarcity and choice: scarcity, choice and opportunity cost; production possibility frontier; economic systems. Demand and supply: law of demand, determinants of demand, shifts of demand versus movements along a demand curve, market demand, law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, market equilibrium. Applications of demand and supply: price rationing, price floors, consumer surplus, producer surplus. Elasticity: price elasticity of demand, calculating elasticity, determinants of price elasticity, other elasticities	Mankiw, N. G. (2018). Principles of Microeconomics 8th ed. Chapter 1 (first seven principles of economics) Chapter 2-1e: Our Second Model: The Production Possibilities Frontier Chapter 4: The Market Forces of Supply and Demand Chapter 5: Elasticity and Its Application Chapter 6: Supply, Demand, and Government Policies Chapter 7: Consumers, Producers, and the Efficiency of Markets	Approx. 12
<b>2. Consumer Theory</b>	Budget constraint, the concept of utility, diminishing marginal utility, Diamond-water paradox, income and substitution effects; consumer choice: indifference curves, derivation of the demand curve from indifference curve and budget constraint	Mankiw, N. G. (2018). Principles of Microeconomics 8th ed. Chapter 21: The Theory of Consumer Choice	Approx. 12
<b>3. Production and Costs</b>	Production: behaviour of profit maximising firms, production process, production functions, law of variable proportions, choice of technology, isoquant and isocostlines, cost minimizing equilibrium condition Costs: costs in the short run, costs in the long run, revenue and profit maximization, minimizing losses, short run industry supply curve, economies and dis- economies of scale, long run adjustments	Principles of Microeconomics (by Case, Fair & Oster) Chapter 7: The Production Process: The Behavior of Profit-Maximizing Firms Chapter 8: Short-Run Costs and Output Decisions Chapter 9: Long-Run Costs and Output Decisions	Approx. 12

<b>4. Perfect Competition</b>	Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; Long run industry supply curve: increasing, decreasing and constant cost industries. Welfare: allocative efficiency under perfect competition.	Mankiw, N. G. (2018). Principles of Microeconomics 8th ed.  CHAPTER 14: Firms in Competitive Markets	Approx. 09
-------------------------------	--	--	---------------

**Essential/ Recommended Readings:**

1. Mankiw, N. G. (2018). Principles of Microeconomics 8th ed.
2. Frank, R.H., & Cartwright, E. (2010). Microeconomics and behavior. New York: McGraw Hill.
3. Bernheim, B., Whinston, M. (2009). Microeconomics. Tata McGraw-Hill.

**Assessment**

1. Internal Assessment (IA): 30 Marks (6 marks for attendance)
2. Continuous Assessment (CA): 40 Marks (5 marks for attendance)
3. The end semester exam: 90 Marks

**Note:**

Suggested weightage for each unit in the final examination: Unit I-24, Unit II- 24, Unit III- 24, Unit IV- 18. This division is flexible and plus/minus 10% of the marks and can be done in each unit, given the total is 90.

**TEACHER: DR. DEEPIKA KUMARI**