

SVKM's Narsee Monjee College of Commerce & Economics(Autonomous)

Program: Bachelor of Commerce (Economics)				Semester : II	
Course : Data Analysis using Excel Academic Year: 2023-2024				Code:	
Teaching Scheme				Evaluation Scheme	
Lectures	Practicals	Tutorials	Credits	Internal Continuous Assessment (ICA) (weightage)	Term End Examinations (TEE) (weightage)
30 Lectures	Nil	Nil	02	20 marks	30 marks
Learning Objectives :					
<ol style="list-style-type: none"> To learn to analyze quantitative data through regression analysis To learn to inferential statistics using z test, t test and chi-square test 					
Learning Outcomes :					
<ol style="list-style-type: none"> Learner would be able to statistically analyze data and test hypothesis using Excel Learner would be able to build models for data analysis using Excel 					
Pedagogy: Lecture, PowerPoint Presentations, Video Clips, Case Studies, Role Plays, Group Discussion					
Detailed Syllabus: (per session plan)					
Session Outline for : Computer Application in Business					
Each lecture session would be of one hour duration (30 sessions)					

Module	Module Content	Module Wise Pedagogy Used	Module Wise Duration
I	Analysis of Quantitative Data Introduction What Is Data Analysis Data Analysis Tools Data Analysis for Two Data Sets Time Series Data: Visual Analysis Cross-Sectional Data: Visual Analysis Analysis of Time Series Data: Descriptive Statistics Analysis of Cross-Sectional Data: Descriptive Statistics Analysis of Time Series Data: Forecasting/Data Relationship Tools Graphical Analysis Linear Regression Covariance and Correlation Other Forecasting Models Analysis of Cross-Sectional Data: Forecasting/Data Relationship Tools	Lecture, Case Study , video clips and discussion	10 Lectures
II	Inferential Statistical Analysis of Data : Introduction	Lecture, Case Study ,	10 Lectures

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	Chi-Square Test of Independence for Categorical Tests of Hypothesis—Null and Alternative z-Test and t-Test of Categorical and Interval Data t-Test: Two Samples Unequal Variances Confidence Intervals for Sample ANOVA	video clips and discussion	
III	Introduction What Is a Model? How Do We Classify Models? Example of Deterministic Modeling ,Understanding the Important Elements of a Model Pre-modeling or Design Phase ,Modeling Phase,Model Building with Excel , Basic Model , Sensitivity Analysis , Controls from the Forms Control Tools , Option Buttons , Scroll Bars	Hands on training on laptops	10 Lectures

Reference Books

Hector Guerrero, Excel Data Analysis Modeling and Simulation Second Edition

EVALUATION PATTERN

Total Marks	External Component	Internal Component[ICA]	Internal test: Assignment[ICA Component]	
50	30	20	10	10
1] For 50 Marks-ICA Test Component-2 test of 10 marks, Average of the 2. 2] Duration: 30 marks -1 hour, 10 marks-20 Minutes 3]ICA Test-Offline				

Internal Class Test 10 Marks Paper Pattern (Pen Paper based)

Que 1	Fill in the Blanks	
	i. ii. iii. iv.	(04)
Que 2	Descriptive Question	(03)
Que 3	Descriptive Question	(03)

2. **10 Marks Assignments / Case study / Mini Project**
3. **30 Marks Final Exam Paper Pattern**

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- i.** Note: Examination shall be conducted in machine test form in Batches (Max Batch-size 30) in computer lab.
- ii.** One External examiner is required along with internal examiner for conduct of examination.
- iii.** Question paper should have maximum number of distinct sets, kept faced down on table, from which student will pick up one question paper.
- iv.** Duration of the examination is 2 Hours
- v.** Marks distribution as given below

Que 1	Practical Question 1	(15)
Que 2	Practical Question 2	(15)

Evaluation shall be done by examiners on machine in computer lab.

Answer sheet/Print out of Code is required