

St. Joseph's College of Commerce (Autonomous)
#163, Brigade Road, Bangalore - 560 025

LESSON PLAN (MODULE WISE)

PROGRAMME: B.COM (Professional - International Accounting & Finance)
SEMESTER: V
SUBJECT & CODE: C415MC502: BUSINESS STATISTICS

Lecture Hours: 60

OBJECTIVE:

To understand and familiarize the students with the concepts and techniques of forecasting and its application in business decision-making

Sl. No	UNIT & OBJECTIVES	No. of Lecture Hours	Methodology/ Instructional Techniques	Evaluation/ Learning Confirmation
MODULE 1	<u>PROBABILITY DISTRIBUTION</u> Objective: To understand the concepts of probability, random variables, and probability distributions	Total 12		
1.	Baye's Theorem, Random Variable, Expectation and Variance of Random Variable	5	Lecture, Discussions, and Problem - Solving	Quiz/Test
2.	Probability distributions - Binomial, Poisson and Normal distributions with business applications.	7	Lecture, and Problem - Solving	Question and Answer
MODULE 2	<u>CORRELATION ANALYSIS</u> Objective: To understand how correlation is used to analyze relationships pertaining to business variables.	Total 10		
1.	Concept of correlation	1	Lecture and	Quiz/Test/

			Discussions	Assignment
2.	Types and Methods – Scatter Diagram, Karl Person’s & Spearman’s Rank Correlation of Coefficient	6	Lecture, and Problem – Solving	Question and Answer
3.	Lag and Lead in Correlation	3	Lecture, and Problem – Solving	Question and Answer
MODULE 3	<u>REGRESSION ANALYSIS</u> Objective: To understand the how regression analysis is used to predict business outcomes.	Total 10		
1.	Concept of regression	1	Lecture, and Discussion	Assignment
2.	Properties of Regression Co-efficient - Methods	3	Lecture, and Problem – Solving	Question and Answer
3	Linear Regression – difference between Correlation and Regression	6	Lecture, and Discussions	Question and Answer
MODULE 4	<u>TIME SERIES ANALYSIS</u> Objective: To understand and apply the concepts and methods underlying the analysis of time series, and interpretation of business results.	Total 10		
1.	Meaning – Definition – types	2	Lecture, and Discussion	Question and Answer/Test
2.	Methods of Solving Secular Trend Analysis - Moving Averages	5	Lecture, and Problem – Solving	Question and Answer
3	Least Squares Method (Linear) – Semi - Averages Method	3	Lecture, and Problem – Solving	Question and Answer
	<u>DECISION THEORY</u>	Total		

MODULE 5	Objective: To understand the different decision-making environment and problem-solving under different business situations.	10		
1.	Meaning - Process of Decision Making	1	Lecture and Discussions	Question and Answer
2.	Elements - Types of Decision-Making	2	Lecture, and Problem - Solving	Question and Answer
3.	Situations - Decision-Making under Certainty - Uncertainty and Risk	3	Lecture, and Problem - Solving	Question and Answer
4.	Bayesian Approach - Decision Tree Technique	4	Lecture, and Problem - Solving	Test/Quiz/MCQ
MODULE 6	Objective: To understand the generation of random numbers and use of simulation technique to solve business problems.	Total 8		
1.	Essence of Simulation	1	Lecture and Discussions	Question and Answer
2.	Applications of Simulation - Generation of Random Numbers	3	Lecture, and Problem - Solving	Question and Answer
3.	Solving Problems using Monte - Carlo Technique	4	Lecture, and Problem - Solving	Question and Answer/Test/MCQ

BOOKS FOR REFERENCE:

- ❖ *ACCA approved Study Materials – Becker, Kaplan and BPP.*

- ❖ *C. B. Gupta: Statistics, Himalaya Publications.*
- ❖ *Chikkodi & B. G. Satya Prasad: Business Statistics, Himalaya Publications.*
- ❖ *Dr. Asthana: Elements of Statistics, Chaitanya.*
- ❖ *Dr. B. N. Gupta: Statistics, Sahitya Bhavan, Agra.*
- ❖ *Dr. Sancheti & Kapoor: Statistics Theory, Methods and Application.*
- ❖ *Ellahance: Statistical Methods.*
- ❖ *S. P. Gupta: Statistical Methods, Sultan Chand, Delhi.*

PROBABLE DATES & NATURE OF CIA:

1. First CIA (10 marks): Between June 28th – July 5th, 2018 – Written Test.
2. Mid Term Exams (20 marks): July end – August first week, 2018.
3. Second CIA (10 marks): Between August 20th - 28th, 2018 – Assignment/Project.

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