Faculty of Management Studies

Master of Business Administration (Integrated) (Sem.-I)

In Effect from Academic Year 2023-24

Branch Name:	MANAGEMENT
Program Code:	MS301
Course Name:	Quantitative Methods for Business I
Course Code:	2MS3010106T
Pre-requisite Course:	Commerce & Trade, Business. Forms of Business, Economics, Industry

Course Objectives:

1) To understand business issues in statistical terms.
2) To bring quantitative understanding in various decision-making problems.
3) To understand statistical issues facing management.
4) To choose statistical tools related to a problem

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
4	-	-	4	60	40	-	-	100

Subject Contents:

Sr No.	Topic	Total Hours	Weightage (%)
1	**Data Analysis & Measure of Central Tendency** Measure of central tendency, presentation & analysis of data, structuring of data, median, mean, mode, dispersion, skewness & kurtosis	7	20
2	**Theory of Probability** Permutations & Combinations, Set Theory, Types of probability, Laws of probability, Random variable, Mutual events	8	20
3	**Probability Distributions** Concepts of probability distributions, types of probability distributions. Mean & Standard Deviations of a probability distributions Continuous & Discrete distributions- various types & its applications	10	20
4	**Application of Function & Matrix in Business**	10	20
5	**Application of Derivative and Integration in Business**	10	20

Text Books:

Sr. No.	Books
1	Business Statistics by Dean and Foster, Pearson India.
2	Business Mathematics by D.C. Sancheti and V.K. Kapoor, Sultan Chand & Sons
3	Business Statistics for Contemporary decision making by Ken Black, John Wiley

Reference Books:

Sr. No.	Books
1	Business Statistics by Kapoor and Gupta, Sultan Chand & Sons
2	Business Statistics by J K Sharma, Pearson publication
3	Statistics for Management, T N Srivastava, Tata McGraw hill

List of Open Source Software/learning website:

1. http://www.managementstudyguide.com/planning_function.htm
2. https://swayam.gov.in/

LAB/Practical

1. Expert talk from Managers can be arranged for students to understand business statistics and mathematics role.
2. Students should work collaboratively to discuss and solve problems.

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Utilize statistical tools and techniques.	3 Applying
CLO2	Classify data visualization technique for the given data set.	2 Understanding
CLO3	Applying appropriate probability distribution techniques for the given set of data.	3 Applying
CLO4	Choose a sampling frame based on the context of decision-making.	5 Evaluate
CLO5	Analyze statistical data to support fact-based decision making.	4 Analyze
CLO6	Formulate a business model with probability and differentiation.	6 Create

Mapping of CLOs with Pos & PSOs

Course	Program Outcomes (POs)								Program Specific Outcomes (PSOs)	
Learning Outcomes	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PSO1**	**PSO2**
CLO1	H	H						M	H	
CLO2			H			M	M			H
CLO3		M		H					M	
CLO4		M				M				H
CLO5	H	H	H					M	H	H
CLO6	M	M	H	L	L	M			H	

H: High, M: Medium, L: Low