Faculty of Commerce
B.Com (Semester -6)
In Effect from Academic Year 2023-24

Branch Name:	B.Com
Program Code:	2CM101
Course Name:	Business Statistics-2
Course Code:	**2CM1010604**
Pre-requisite Course:	Basics knowledge of Statistics.

Course Objectives:

1. To make the students aware aware about the different statistical methods.
2. To expose students to basic Statistical concepts.
3. To inculcate an analytical approach to the subject matter.

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
				Theory (Marks)		Practical (Marks)		
Lecture (L)	Tutorial (T)	Practical (P)	Credit	University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	Total (Marks)
3	--	-	3	70	30	-	-	100

Subject Contents:

Sr. No	Topic	Total Hours	Weightage (%)
1	**Co-ordinate Geometry:** Co-ordinate of a point, slope and intercepts of a line joining two points, Equation of a straight line, Derive the different forms of equation of a straight line. $y = mx + c$ | $y - y_1 = m(x - x_1)$ $\frac{y - y_1}{y_1 - y_2} = \frac{x - x_1}{x_1 - x_2}$ | $\frac{x}{a} + \frac{y}{b} = 1$	9	25%
2	**Analysis of Time Series:** Meaning and Scope of Time Series, Causes of variations in time series data, Components of a time series, Determination of Trend- Moving averages method and method of least squares for linear trend, Computation of Seasonal variations by the method of moving averages, Seasonal indices by Simple averages and ratio-to-moving averages methods.	9	25%
3	**Simple Random Sampling:** Simple Random Sampling with and without replacement and their properties. Methods of selecting a simple random sample. Estimation of population mean, total and proportion. Standard error and estimation of standard errors. Confidence Limits for Population Mean and Total. Estimation of sample size.	9	25%
4	**Elements of Decision Theory:** Basic structure of decisions, Classical basis of pay-off matrix models, Pay-off matrix under conditions of risk, expected value with minimum-maximum and maximum-minimum, Horwitzs and Laplace criteria, Expected monetary value (EMV).	9	25%

Text Books:

1. S.P. Gupta , Statistical Methods, S. Chand Publication.

Reference Books:

1. Business Statistics by Rana, Dalal and others By Sudhir Prakashan, Ahmedabad
2. Hooda R.P. : Statistics for Business and Economics, Macmillan, New Delhi
3. Levin and Rubin : Statistics of Management, Prentice-Hall of India, New Delhi
4. Business Mathematics, B.S. Shah Prakashan
5. Kapoor V.K.: Business Mathematics, Sultan Chand & Sons, New Delhi
6. Sancheti & Kapoor: Business Statistics, Sultan Chand & Sons, New Delhi

List of Open Source Software/learning website:

1. https://www.youtube.com/watch?v=cd6J5PIs2xs&list=PLGQ2WKrrNLGrsEwostLMNZuzG2NP86JmT
2. https://www.youtube.com/watch?v=GdCRdRodFuI
3. https://www.youtube.com/watch?v=KLAEwukvuZs
4. https://www.youtube.com/watch?v=F6FbE43xous

LAB/Practical

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

CLO	Description	Bloom'sTaxonomyLevel
CLO1	**understand** the methods for describing sets of data.	2 Understanding
CLO2	**Illustrate** the different types of statistical method.	3 Applying
CLO3	**Compare** about the various statistical method.	4 Analyzing
CLO4	**understand** the Co-ordinate Geometry.	2 Understanding
CLO5	**Understanding** the concepts of Elements of Decision Theory.	2 Understanding
CLO6	To **describe** Simple Random Sampling.	1 Remembering

Mapping of CLOs with Pos & PSOs

Cource Learning Outcomes (CLOs)	Program Outcomes (POs)							Program Specific Outcomes (PSOs)	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
CLO1	H		M	H		L	M	M	H
CLO2									
CLO3	H		H	H	L				
CLO4	H		H	H	M			L	M
CLO5	H		H	H			M		
CLO6	M	L	M	M				M	H

H:High, M:Medium, L:Low