

MASTER OF COMMERCE

First Semester

(Under CBCS)

Paper: COM 1046

BUSINESS STATISTICS



CONTENTS:

BLOCK I: SAMPLING DISTRIBUTION AND THEORY OF ESTIMATION

BLOCK II: TESTING OF HYPOTHESIS

BLOCK III: CORRELATION, REGRESSION AND ASSOCIATION OF ATTRIBUTES

BLOCK IV: MEASURES OF INEQUALITY

BLOCK V: STATISTICAL DECISION THEORY

SLM Development Team:

Head, Department of Commerce, G.U.
Programme Co-Ordinator, M.Com., GUCDOE
Prof. S. K. Mahapatra, Department of Commerce, G.U.
Prof. Prashanta Sharma, Department of Commerce, G.U.
Mr. Rajen Chetry, Assistant Professor, GUCDOE

Course Coordination:

Dr. Debahari Talukdar Director, GUCDOE
Dr. Tilak Ch. Das Programme Coordinator, M.Com, GUCDOE &
Assistant. Professor, Dept. of Commerce, G.U.
Mr. Rajen Chetry Assistant Professor, GUCDOE
Dipankar Saikia Editor SLM, GUCDOE

Contributors:

Dr. Pranjal Sarma Block I & Block II
Assistant Professor, LCB College
Dr Mahuya Deb Block III, Block IV & Block V
Assistant Professor, Deptt. of Commerce, GU

Content Editing:

Dr. Pranjal Sarma Block III, Block IV & Block V
Assistant Professor, LCB College
Dr Mahuya Deb Block I & Block II
Assistant Professor, Deptt. of Commerce, GU

Format Editing:

Mr. Rajen Chetry Assistant Professor, GUCDOE
Mr. Kiran Tanti Assistant Professor, GUCDOE

Cover Page Design & Type Setting:

Bhaskar Jyoti Goswami GUCDOE
Nishanta Das GUCDOE

ISBN: 978-81-964942-7-8
March, 2024

© Copyright by GUCDOE. All rights reserved. No part of this work may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise.
Published on behalf of Gauhati University Centre for Distance and Online Education by the Director, and printed at Gauhati University Press, Guwahati-781014.

CONTENTS:

Block I : Sampling Distribution and Theory of Estimation

(Page: 5 to 40)

- Unit 1 : Sampling Distribution
- Unit 2 : Statement of Central Limit Theorem, Estimation of the Mean and The Variance of the Sampling Distribution of Sample Mean
- Unit 3 : Point Estimation and Interval Estimation for Population Parameter

Block II : Testing of Hypothesis

(Page: 41 to 110)

- Unit 1 : Testing of Hypothesis-an Introduction
- Unit 2 : Types of Hypothesis
- Unit 3 : Errors in Testing of Hypotheses
- Unit 4 : Parametric Test
- Unit 5 : Non-Parametric Tests

Block III : Correlation, Regression And Association Of Attributes

(Page: 111 to 158)

- Unit 1 : Basic Concepts of Partial and Multiple Correlation and Regression
- Unit 2 : Various Formulae, Problems, Uses and Limitation of Partial and Multiple Correlations and Regressions
- Unit 3 : Coefficient of Multiple Determinations, Association of Attributes: Concept, Order of a Class, Class Frequency, Consistency of Data
- Unit 4 : Kinds of Association of Attributes, Methods of Measuring Association Between Two Attributes, Partial Association

Block IV: Measures of Inequality

(Page: 159 to 196)

- Unit 1 : Measures of Inequality, Standard Deviation and Variance, Coefficient of Variation
- Unit 2 : Lorenz curve and Gini coefficient
- Unit 3 : Pareto's Law of Income Distribution, deprivation index

Block V : Statistical Decision Theory

(Page: 197 to 227)

- Unit 1 : Decision Theory Concepts
- Unit 2 : Steps in Decision Making Process
- Unit 3 : Decision Tree