PGBA S3 02-2

Production and Operations Management

Semester III

BUSINESS ADMINISTRATION

Block 2

KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY

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MASTER OF BUSINESS ADMINISTRATION

Statistics for Management

Block 2

DETAILED SYLLABUS

Unit 9: Theoritical Distribution II: **Page No. : 199 – 212**

ContinuousProbability Distribution, Normal Distribution, Properties of Normal Distribution, Standard Normal Variate

Unit 10: Simple Correlation and Regression: **Page No. : 213 – 275**

Correlation Analysis, Correlation and Causation, Types of Correlation, Methods of Measuring Correlation, Karl Pearson's correlation coefficient method, Spearman's Rank Correlation Coefficient, Probable error of correlation coefficient, Coefficient of determination, Regression Analysis, Regression Lines, Standard Error Of Estimate

Unit 11: F- Distribution and Analysis of Variance: **Page No. : 276 – 319**

Assumptions For F-Test, Properties Of F-Distribution, Applications Of F-Distribution, Hypothesis Testing for Difference between Two Population variances, Analysis Of Variance, Assumptions Of Analysis Of Variance, Classification Of Analysis Of Variance

Unit 12: Sampling and Population: **Page No. : 320 – 347**

Concept of Population and Sample, Basic Principles of Sample Survey, Different Steps in a Sample Survey, Errors in Surveys, Types of Sampling, Selection of Random Samples, Simple Random Sampling, Stratified Random Sampling, Systematic Random Sampling, Uses of Systematic Sampling, Cluster Sampling

Unit 13: Testing of Hypothesis: **Page No. : 348 – 397**

Statistical hypothesis: Null hypothesis and Alternative hypothesis, Errors in Hypothesis Testing, Level of Significance and Critical Region, One -Tailed and Two-Tailed Tests, General Procedure For Hypothesis Testing, Testing of Hypothesis in case of Large Samples, Testing of Hypothesis in case of Small Samples

Unit 14: Chi- Square Test: **Page No. : 398 – 426**

The Chi-Square (χ^2) Distribution, Applications of χ^2 Test, χ^2 Test of Goodness of Fit, χ^2 Test for Independence of Attributes, χ^2 Test for a Specified Population Variance, χ^2 Test of Homogeneity

Unit 15: Business Forecasting: **Page No. : 427 – 446**

Prediction, Projection and Forecasting, Steps In Business Forecasting,Methods Of Business Forecasting, Theories of Business Forecasting, Utility Of Business Forecasting, Reliability of Business Forecasting.

BLOCK INTRODUCTION

This is the second block of the course Statistics for Management.

The first unit of this block that is unit 9 is about Theoritical Distribution

The tenth unit is about Simple correlation and Regression.

The eleventh unit is about Distribution and ANOVA

The twelvth unit explains the concept of Sampling and Population

The thirteenth unit is about Testing of Hypothesis.

The fourteenth unit explains the concept of Chi Square test

The last unit explains about Business Forecasting.