Guidelines for CBCS Revised Syllabus w.e.f. 2019-20

For the Paper Titled "Business Statistics" of B. Com. (Hons.)

Paper No. BCH 5.4(d), Semester-V

ORGANISED BY

Department of Commerce, Delhi School of Economics, University of Delhi

Date: 24th August, 2021

MINUTES

An online meeting was held on Tuesday, 24th August, 2021 at 10.30 AM on Google Meet Platform (Meeting ID:https://meet.google.com/eap-gsrc-fco) to prepare the Guidelines for CBCS Revised Syllabus w.e.f. 2019-20 for the paper titled "Business Statistics" of B. Com. (Hons.) Paper No. BCH 5.4(d), Semester-V, organised by Department of Commerce, Delhi School of Economics, University of Delhi. Total twenty nine (29) faculty members of the different colleges of University of Delhi associated with teaching of this paper registered in advance to attend the meeting and finally twenty four (24) faculty members attended the meeting on the scheduled day, date through the given link. The meeting was convened by Dr. H. K. Dangi, Professor, Department of Commerce, Delhi School of Economics, University of Delhi. The following members were present in the onlinemeeting:

Sl. No.	Name of the Faculty	Affiliated College
1.	Prof. H.K.Dangi (Convenor)	Department of Commerce, Delhi School of Economics, University of Delhi
2.	Dr. Pooja Goel (Coordinator)	ShaheedBhagat Singh College
3.	Dr. Meenakshi Gupta	Sri Aurobindo College
4.	Mr. Aashish Jain	Sri Venkateswara College
5.	Dr. Apoorva	Maitreyi College
6.	Mr. Rajneesh Prakash Verma	Indraprastha College For Women
7.	Dr. Monika Khemani	ShyamLal College
8.	Ms. Priyanka Bedi	Sri Aurobindo College(M)
9.	Ms. Alka Gupta	Gargi College
10.	Ms. Shweta Jain	Kamala Nehru College
11.	Mr. Nitin Navin	Satyawati College(Day)

12.	Ms. Kamna Virmani	Mata Sundri College For Women
13.	Dr. Manju Bhatia	Sri Guru Gobind Singh College Of Commerce
14.	Ms. Kritika Khurana	Maitreyi College University Of Delhi
15.	Dr. Sudesh Kumari	Hansraj College
16.	Ms. Archna Gupta	Indraprastha College For Women
17.	Dr. Archana Agarwal	Sri Aurobindo College (Evening)
18.	Dr. Parminder Kaur	ARSD COLLEGE
19.	Ms. Khushboo Aggarwal	P.G.D.A.V. COLLEGE
20.	Dr. Neelam Gupta	B.R. Ambedkar College
21.	Ms. Suman Narang	Kamala Nehru College
22.	Ms. Sufiya	Zakir Husain Delhi College (M)
23.	Dr. Sonal	Hansraj College
24.	Mr. Sandeep Sehrawat	Satyawati College (Evening)

The following guidelines were set in the online meeting with the consent of all the Faculty Members and the Representative of Department of Commerce, Delhi School of Economics, University of Delhi:

Teaching Related General Guidelines

1. Total Number of Lectures Assigned As per CBCS University of Delhi Revised Syllabus for Computer Applications in Business are 52 Theory Classes & 26 Practical Classes i.e. total 78 Lectures.

2. Unit Wise Breakup of 52 Lectures are recommended as follows:

Unit	Particular	Topics to be covered	Lectures Allocated
1	Descriptive Statistics	1.1 Measures of Central Tendency a) Concept and properties of mathematical averages	12

		including arithmetic mean, geometric mean and harmonic mean. b) Positional Averages including Mode and Median (and other partition values - quartiles, deciles, and percentiles) with graphic presentation. 1.2 Measures of Dispersion absolute and relative. Range, quartile deviation, mean deviation, standard deviation, and their coefficients; Properties of standard deviation/variance. 1.3 Moments Calculation and significance; Skewness: Meaning and Measurement (Karl Pearson and Bowley's measures); Kurtosis	
2	Probability and Probability Distributions	2.1 Theory and approaches of probability. 2.2 Probability Theorems: Addition and Multiplication (Proof not required) 2.3 Conditional probability and Bayes' Theorem (Proof not required). 2.4 Expectation and variance of a random variable. Business Applications. 2.5 Probability distributions: (a) Binomial distribution: Probability distribution function, Constants, Shape, Fitting of binomial distribution. (b) Poisson distribution: Probability function (including Poisson approximation to binomial distribution), Constants, Fitting of Poisson distribution. (c) Normal distribution: Properties of Normal curve and computation of Probabilities.	12
3	Simple Correlation and Regression Analysis	3.1 Correlation Analysis Meaning and types of Correlation; Correlation Vs Causation; Pearson's co-efficient of correlation: computation and properties (proofs not required). Probable and standard errors; Rank correlation. 3.2 Regression Analysis Principle of least squares and regression lines; Regression equations and estimation; Properties of regression coefficients; Relationships between Correlation and Regression coefficients; Standard Error of Estimate	10
4	Index Numbers	4.1 Meaning and uses of index numbers; Construction of Index numbers: fixed and chain base, univariate and composite; Methods of constructing Index numbers: Aggregatives and average of relatives – simple and weighted. 4.2 Tests of adequacy of index numbers; Base shifting,	8

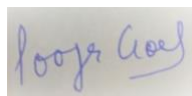|		splicing and deflating; Problems in the constructions of index numbers. 4.3 Construction and Utility of Consumer Price Indices; BSE SENSEX and NSE NIFTY	
5	Time Series Analysis	5.1 Time Series Data; Components of time series; Additive and Multiplicative models. 5.2 Trend analysis; Fitting of trend line using principle of least squares – linear, second degree parabola and exponential; Shifting of Origin and Conversion of annual linear trend equation to quarterly/monthly basis and vice-versa; Moving averages. 5.3 Seasonal variations- Calculation of Seasonal Indices using Simple averages, Ratio-to-trend and Ratio-to-moving averages methods; Uses of Seasonal Indices	10

Structure of the Question Paper:

Application-based questions should be asked. All units will have equal weightage i.e. (15 marks). The question paper will comprise 5 questions in total with internal choice of all questions.

There would not be external practical. Marks of practical portion will be included for internal assessment.

Note:

1. There will be no practical question asked in the external examination from the topic BSE SENSEX and NSE NIFTY.

2. The above mentioned division of lecture classes is done taking 13 weeks as a base. The number of lectures may be adjusted proportionately as per latest DU calendar.

Dr. Pooja Goel
(Coordinator)
Associate Professor, Commerce
Shaheed Bhagat Singh College