



J.C. Bose University of Science & Technology, YMCA, Faridabad, Haryana
(A Haryana State Government University)

(Established by Haryana State Legislative Act No. 21 of 2009 & Recognised by UGC Act 1956 u/s 22 to Confer Degrees)
Accredited 'A+' Grade by NAAC

Community College of Skill Development (CCSD)

Date: 27/03/2023

Corrigendum – 2

Subject: syllabus of the written test for the Advt. No. JCBUST/CCSD/2022/05.

On the subject cited above, post wise syllabus of the written test for the Advt. No. JCBUST/CCSD/2022/05 is as follows:

S.N.	Course	Post	Written test syllabus
1	B.Voc. Banking Financial Services & Insurance (BFSI)	Assistant Professor (Contractual)	UGC NET Syllabus of Management
2	B.Voc. Banking Financial Services & Insurance (BFSI)	Lecturer (Contractual)	UGC NET Syllabus of Management
3	PG Diploma Data Science & Analytics	Assistant Professor (Contractual)	Attached as CP.N. -1
4	English	Lecturer (Contractual)	UGC NET Syllabus of English
5	Yoga and Naturopathy	Lecturer (Contractual)	UGC NET Syllabus of Yoga

Note: The written test for these posts will be held on 11th April, 2023. Detailed schedule of examination and admit cards will be released soon.


Principal, CCSD

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Technology, YMCA, Faridabad (HR.)

DATA SCIENCE & MACHINE LEARNING: Overview of Data Science, Mathematical Computing using numpy Library and its use cases, Pandas Data Structures, Data series, Data frame, Index object, Other Functionalities on Data using Pandas, All type of Data visualization objects using matplotlib and seaborn library, Scipy and all operations and functionary of Scipy.

STATISTICS & PROBABILITY: Descriptive statistics, Probability, Bayesian Paradigm, Randomization, Hypothesis testing, Theory of Estimation , central limit theorem, Normal distribution, chi-Square, T- distribution, ANOVA, Line fitting, residuals and correlation, least squares regression, Regressions,

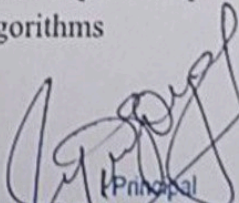
ADVANCED DATABASE MANAGEMENT SYSTEM: DBMS architecture- levels, Mappings, Database, users and DBA, Schemas, DDL, DML, Database Management System Structure, Client / Server Architecture, Entity-Relationship, Relational Algebraic operations, Functional Dependency, Concurrency Control, Query Languages and SQL queries.

DATA STRUCTURES & ALGORITHMS: Basic Terminologies, Operations of Stacks and Queues, Linked Lists, Trees and all types of sorting and hashing

PYTHON PROGRAMMING: Basic Programming in python, Machine Learning using Python

FUNDAMENTALS OF DATA SCIENCE: Text Analysis, Image Processing, TIME SERIES, Recommendation System, Data Visualization with Tableau, Data Visualization with PowerBI

MACHINE LEARNING: ML Basic Fundamentals, Linear Regression, Logistic Regression, Decision Trees, Random Forests, Model Selection Techniques, Support Vector Machines (SVM), Boosting , AdaBoost , Gradient Boosting , XGBoost; Principal Component Analysis, K-Means Clustering, Hierarchical clustering and other ML Algorithms


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