SLC (University of Delhi)
SHYAM LAL COLLEGE

DEPARTMENT OF COMMERCE
COMMBLAZE : THE COMMERCE ASSOCIATION
& IQAC are organising an
OFFLINE WORKSHOP
on
"Data Driven Decisions: Business Analytics through R and Power BI"

RESOURCE PERSONS

Senior Prof. C.P. Gupta
Lal Bahadur Shastri Institute of Management, Delhi

Prof. Prabhat Mittal
Satyawati College Evening, University of Delhi

Dr. Anil Goswami
Department of Commerce, University of Delhi

Prof. Mohnish Kumar
Bhim Rao Ambedkar College, University of Delhi

Date : 21st Jan - 23rd Jan, 2025
Timings : 10AM - 4:30PM
Venue: Board Room, New Building, SLC
Deadline to Register: 19th Jan, 2025

Fees - ₹ 1000/-
LIMITED SEATS ONLY

First-Come, First-Serve Basis
(E-Certificates will be provided to all the participants with NOC)

Workshop Coordinators
Dr. Neha Bothra
Mr. Yogesh
Ms. Palak Kakkar
Convener
Dr. Triveni, Commerce Association
Co-Convener
Ms. Priyanka Yadav, Commerce Association
Workshop Director
Prof. Kavita Arora, TIC (Commerce Dept.)
IQAC Director
Prof. Kusha Tiwari
Patron
Prof. Rabi Narayan Kar, Principal

Scan the QR Code for Registration

For Queries Contact: Mr. Yogesh- 9871140210, Dr. Neha Bothra- 9910331929

About the College

Founded in 1964 by the great visionary and entrepreneur Padmashree (Late) Shri Shyam Lal Gupta, Shyam Lal College (SLC) is a co-educational constituent college of the University of Delhi. It is a premier educational institution offering a vibrant, inclusive environment for the development of excellence in academics, culture, sports, and other student-empowered activities. The college campus has a sprawling sports infrastructure full of lush green lawns and blooming gardens that create a natural ambiance of a holistic teaching-learning process. SLC, over the past several years, has been making steady progress toward achieving academic excellence through learning, innovation, and knowledge creation. In 2023, Shyam Lal College achieved a new milestone as it was accredited with an A++ grade by NAAC (National Assessment and Accreditation Council). It has been ranked 68th amongst the best colleges in India in the NIRF Ranking. The College has also been selected for the DBT STAR College Programme under the Ministry of Science and Technology in 2020.

About the Department of Commerce

The Department of Commerce of Shyam Lal College (SLC) has many experts and academicians who leave no stone unturned in keeping the students abreast with the latest developments in the field of Commerce and Management. Classroom teaching is supplemented with experiential learning and industry exposure. The Department regularly organizes International Conferences, Seminars, and Workshops to apprise the students of organizational and networking skills. The Department's teaching faculty actively participates in research activities and regularly updates the curriculum.

About the IQAC

As per National Assessment and Accreditation Council (NAAC) guidelines every accredited institution should establish an Internal Quality Assurance Cell (IQAC) as a post-accreditation quality sustenance measure. Since quality enhancement is a continuous process, the IQAC, SLC works towards realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the College through monitoring and facilitating academic, co-curricular and extra-curricular initiatives. The IQAC of the College achieves all these through a systemic and regular feedback mechanism and pursues towards achievement of new agendas and goals.

About the Workshop

The primary goal of the course is to impart the fundamental knowledge of R, spreadsheet, Power BI, and Tableau. The session would be intended to discuss the necessary themes for the Business Analytics (core paper) that has been recently introduced in the sixth semester of the B.Com. (Hons) and B.Com. (Prog) programs. The sessions would be inclined to discuss the practical implications and usage of Data analytics to solve business challenges and support better business decision-making. It would involve characterizing company data and analyzing it using R, Spreadsheet, Power BI, and Tableau to generate prediction models and draw conclusions.

SCHEDULE OF WORKSHOP

ON

"Data Driven Decisions: Business Analytics through R and Power BI"

DAY-1 (21st January, 2025)

Prof.CP.Gupta:
- Introduction to R, Advantages of R, Installation of R Packages, Importing data from spreadsheet files, Commands and Syntax, Packages and Libraries, Data Structures in R - Vectors, Matrices, Arrays, Lists, Factors, Data Frames, Conditionals and Control Flows, Loops, Functions, and Apply family.
- Importing Data file; Data visualisation using charts: histograms, bar charts, box plots, line graphs, scatter plots. etc;

Prof.Mohnish Kumar:
- Basics of textual data analysis, significance, application, and challenges. Introduction to Textual Analysis using R. Methods and Techniques of textual analysis: Text Mining, Categorization and Sentiment Analysis.

DAY-2 (22nd January, 2025)

Prof.Prabhat Mittal :
- Data and Data Science; Data analytics and data analysis, Classification of Analytics, Application of analytics in business, Types of data: nominal, ordinal, scale; Big Data and its characteristics, Applications of Big data. Challenges in data analytics.
- Data Preparation and Cleaning, Sort and filter, Conditional formatting, Text to Column, Removing Duplicates, Data Validation, identifying outliers in the data, covariance and correlation matrix, Moving Averages, Finding the missing value from data; Summarisation; Visualisation: scatter plots, line charts, histogram, etc., Pivot Tables, pivot charts and interactive dashboards.

Prof.Mohnish Kumar:
- Practical Excercise on Power BI and Tableau.

DAY-3 (23rd January, 2025)

Prof.CP.Gupta:
- Data description: Measure of Central Tendency, Measure of Dispersion, Relationship between variables: Covariance, Correlation and coefficient of determination.
- Simple Linear Regression models; Confidence & Prediction intervals. Multiple Linear Regression; Interpretation of Regression Coefficients; heteroscedasticity; multi-collinearity.

Dr.Anil Goswami:
- Real life implications of Power BI and Tableau.