



School of Commerce Finance and Accountancy

CURRICULUM DOCUMENT

**M.Sc.
(FINANCE AND ANALYTICS)
Batch 2024-25**

CHRIST (Deemed to be University) Delhi-NCR

PROGRAM OVERVIEW

Continuous improvement and innovation is key for success and growth to any business. In fast changing digital world today business leverages, the vast volume of data available to take decisions to improve and innovate, especially in finance. Data has changed the way a business takes decisions. Today almost every business, irrespective of size, uses analytics tools to leverage data for growth. With data analytics business are better equipped with information. However, it takes the knowledge and expertise of a skilled data analytics professional to effectively analyse this data. The current financial industry such as the Big fours, financial institutions, multinational banks, insurance companies, mutual fund companies, finance and leasing companies, stockbroking firms, investment firms, banks etc are heavily relying on big data for informed investment decisions. Thus there is a high demand for professionals with a specialisation in finance and data analytics. Thus the program aims to train and skill the aspirants with the knowledge and application in finance, investment and data analytics.

PROGRAM OBJECTIVES

The program has the following objectives;

- To provide a deep understanding of finance concepts, theories and models
- To provide training and skills in programming languages
- To develop knowledge and skills in analysing data for informed decision
- To provide training in the application of the concepts, techniques, methods and approaches of business analytics
- To enhance critical and analytical skills
- To provide intensive training in presenting and reporting data as attractive dashboards.

PROGRAM OUTCOMES

After attending this program, students will be able to;

- **PO1-** Develop the deep understanding of finance concepts and analytical tools and techniques
- **PO2-** Apply the concepts, techniques, methods and approaches of business analytics using real time data
- **PO3-** Analyse and Interpret the results of real world financial and data related issues
- **PO4-** Build the models for effective and strong decision making
- **PO5-** Examine the implications of ethical and legal decision processes

PROGRAM STRUCTURE

SEMESTER 1

Course Code	Course Title
MFA131N	Financial and Management Accounting
MFA132N	Advanced Corporate Finance
MFA133N	Mathematics and Statistics
MFA134N	Applied Analytics using Python
MFA135N	Financial Markets and Institutions
MFA121N	Marketing Management

MFA122N	Human Resource Management
MFA123N	Operations Management
HOL111N	HED
MFA124N	Simulations in computational finance -Mandatory Simulation Certification-1

SEMESTER 2

Course Code	Course Title
MFA231N	Data Visualizations & Business Intelligence
MFA232N	Predictive & Prescriptive Analytics with Machine Learning
MFA233N	Applied Equity Research and Portfolio Management
MFA234N	International Financial Management
MFA235N	Financial Modelling and Business Valuation
HOL211N	HED
MFA221N	Simulations in Computational Finance- Mandatory Certification-2

Industry Internship- 60 days (4 Credits)

SEMESTER 3

Course Code	Course Title
MFA331N	Stochastic Finance
MFA332N	Big Data Analytics
MFA333N	Financial Analytics
MFA334N	Strategic Management and Business Transformations
MFA335N	Applied Derivatives and Risk Management
MFA336N	Fixed Income Securities and Treasury Management

SEMESTER 4

Course Code	Course Title
MFA431N	Ethical and Legal Aspects of Analytics
MFA432N	Cyber and Data Security
MFA481N	Live Project (four month long)