



Yashaswi Education Society's
INTERNATIONAL INSTITUTE OF MANAGEMENT SCIENCE



VALUE ADDED COURSE ON “**FINANCIAL ANALYTICS**” 2019-20

Course Duration 30 Hrs.



Course Trainer
Prof. Sarang Dani

Financial Analytics Syllabus

Module 1: Introduction to Financial Analytics 04 Hrs

This module introduces the concepts of financial analytics, its importance in decision-making, and the tools used. It covers the basics of financial statements, key financial ratios, and an overview of data analytics techniques relevant to finance.

Module 2: Data Collection and Preparation 04 Hrs

Students will learn methods for collecting financial data from various sources and preparing it for analysis. Topics include data cleaning, handling missing values, and data normalization. The module emphasizes the use of software tools for data preparation.

Module 3: Descriptive Analytics 04 Hrs

This module focuses on summarizing and visualizing financial data to extract meaningful insights. Students will learn about descriptive statistics, data visualization techniques, and how to use software tools to create financial dashboards and reports.

Module 4: Predictive Analytics 04 Hrs

Students will explore predictive analytics techniques to forecast financial trends and performance. The module covers regression analysis, time series analysis, and machine learning algorithms applied to financial data. Practical examples and case studies will be used to illustrate these concepts.

Module 5: Risk Management and Analytics 04 Hrs

This module delves into risk management using analytical techniques. Students will learn about different types of financial risks, risk assessment methods, and how to use analytics to quantify and mitigate risks. Topics include value at risk (VaR), stress testing, and scenario analysis.

Module 6: Investment Analytics 05 Hrs

This module covers the application of analytics in investment decision-making. Students will learn about portfolio optimization, asset allocation, and performance measurement. The module includes the use of analytical tools to evaluate investment opportunities and strategies.

Module 7: Advanced Financial Analytics 05 Hrs

The final module introduces advanced topics in financial analytics, such as sentiment analysis, algorithmic trading, and big data analytics in finance. Students will learn about the latest trends and technologies shaping the field of financial analytics.

