

**SES's L.S. RAHEJA COLLEGE OF ARTS AND COMMERCE
(AUTONOMOUS)**



**BOARD OF STUDIES: IT & DATA SCIENCE
PROGRAMME: B.COM (COST AND MANAGEMENT
ACCOUNTING)
SEMESTER: II
NOMENCLATURE OF THE COURSE: TECHNOLOGY AND
ANALYTICS - II
NEP Vertical: SEC
Credit: 2**

(As Per Choice Based Credit System (under NEP 2020) with effect from the Academic Year 2025-26)



Programme:	B. Com (Cost & Management Accounting)
Nomenclature of the Course	Technology & Analytics - II
Total Marks	50
Semester:	II
Academic year	2025-2026

LEARNING OBJECTIVES:

1. To understand the role of technology in transforming finance through AI, cloud computing, and blockchain.
2. To explore the fundamentals and applications of data analytics, data mining, and analytic tools in finance.
3. To equip students with skills to apply visualization techniques for better decision-making and financial analysis.
4. To analyze the integration of technology in finance and its impact on business performance and financial strategies.

COURSE OUTCOMES:

1. Recognize and explain key technologies like AI, blockchain, cloud computing, and their applications in finance.
2. Use data analytics tools, including sensitivity and simulation analysis, to solve real-world financial problems.
3. Analyze data trends using visualization techniques and evaluate their implications for business strategies and decision-making.

Unit	Course Content	Andragogy	No of Lectures
I	<p>Technology-Enabled Finance Transformation</p> <p>Artificial Intelligence: Understanding AI's role in automating financial processes, fraud detection, and predictive analytics.</p> <p>Cloud Computing: Exploring cloud-based solutions for financial management, cost efficiency, and data storage.</p> <p>Blockchain and Smart Contracts: Fundamentals of blockchain technology, its impact on finance, and the use of smart contracts for secure transactions.</p>	Presentations, Case studies, Group Discussions	15
II	<p>Data Analytics and Visualization</p> <p>Data Analytics: Overview of data analytics in finance, focusing on its role in decision-making and risk management.</p> <p>Data Mining: Techniques for extracting valuable patterns and trends from large financial datasets.</p> <p>Types of Data Analytics: Descriptive, diagnostic, predictive, and prescriptive analytics and their financial applications.</p> <p>Analytic Tools - Sensitivity and Simulation Analysis: Practical applications of sensitivity and simulation analysis in forecasting and financial decision-making.</p> <p>Visualization or Visual Discovery: Using visualization techniques to present complex financial data and facilitate decision-making.</p>	Presentations, Case studies, Group Discussions	15

SUGGESTED READINGS

1. "Financial Technology and Digital Transformation" by J. Nathan
2. "Data Analytics for Finance" by Zhiwei Luo
3. "Financial Analytics with R" by D. McKinney
4. "Blockchain and the Law" by Primavera De Filippi

QUESTION PAPER PATTERN Internal Continuous Assessment (ICA) Pattern

Particulars	Marks
Presentation/Viva Voce	10
Assignment/Project	10
Total	20

TERM END EXAMINATION

Maximum Marks: 30

Duration: 1 Hour

All questions are compulsory.

Question No.	Description	Total Marks
1	A. Full Length Theory Question OR	12
	B. Full Length Theory Question	
2	A. Full Length Theory Question OR	12
	B. Full Length Theory Question	
3	Short Notes (Any 2 out of 3)	6

The Full length theory questions of 12 marks each may be split up into two smaller problems carrying 6 marks each.