ಡಾ. ಮನಮೋಹನ ಸಿಂಗ್
ಬೆಂಗಳೂರು ನಗರ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

Dr. MANMOHAN SINGH
BENGALURU CITY UNIVERSITY

Office of the Registrar, Central College Campus, Dr. B.R. Ambedkar Veedhi, Bengaluru – 560 001.
PhNo.080-22131385, E-mail: registrar@bcu.ac.in/registrarbcu@gmail.com

No.MSBCU/BoS/Syllabus/Commerce/ 10< /2026-27 Date:29.06.2026

NOTIFICATION

Sub: Syllabus for the V & VI Semester Under Graduate Courses in the Faculty of Commerce -reg

Ref: 1. Government Order No. ED 166 UNE 2023 Bengaluru dated. 08.05.2024
2. Recommendations of the Boards of Studies in the Faculty of Commerce
3. Approval of the Academic Council in its meeting held on 08.06.2026
4. Orders of Vice-Chancellor dated.29.06.2026

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The Syllabus prepared by the Boards of Studies for the different Programmes of V & VI semester Under Graduate Courses, in the faculty of Commerce based on the Guidelines and Curriculum Structure issued by the Government under ref(1) have been approved by Academic Council meeting held on 08.06.2026.

Accordingly, the CBCS Syllabus for the V & VI Semester Course of UG Courses Faculty of Commerce in respect of following programmes are hereby notified for implementation from the academic year 2026-27.

Sl.No.	Programmes
1.	B.Com– V & VI Semester
2.	B.Com – [Logistics and Supply Chain Management] – V & VI Semester
3.	B.Com –[Accounting and Finance] – V & VI Semester
4.	B.Com – [Business Data Analytics]– V & VI Semester
5.	B.Com – [Travel & Tourism Management]– V & VI Semester
6.	B.Com- [Fintech]– V & VI Semester
7.	B.Com-Retail Operation – AEDP– V & VI Semester
8.	B.Com-BFSI – AEDP– V & VI Semester
9.	BBA– V & VI Semester
10.	BBA [Aviation Management] – V & VI Semester

p.t.o

11.	BBA [Business Analytics] – V & VI Semester
12.	B.Voc. [Accounting and Taxation] – V & VI Semester
13.	B.H.M – V & VI Semester
14.	BTTM– V & VI Semester
15.	B.Com – CMA – I & II

The detailed Syllabi for above subjects are notified in the University Website: www.bcu.ac.in for information of the concerned.

REGISTRAR

Copy to;

1. The Registrar(Evaluation), Dr. Manmohan Singh Bengaluru City University
2. The Dean, Faculty of Commerce, MSBCU.
3. The Principals of the concerned affiliated Colleges of MSBCU- through email.
4. The P.S. to Vice-Chancellor/Registrar/Registrar (Evaluation), MSBCU.
5. Office copy / Guard file / University Website: www.bcu.ac.in

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ಬೆಂಗಳೂರು ನಗರ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

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BE BOUNDLESS

DR. MANMOHAN SINGH
BENGALURU CITY UNIVERSITY

BACHELOR OF COMMERCE

B.Com (Financial Technology)

SYLLABUS AS PER STATE EDUCATION POLICY

CBCS- Scheme

1st and 2nd Semester (2024-25 onwards)

3rd and 4th Semester (2025-26 onwards)

5th and 6th Semester (2026-27 onwards)

DEPARTMENT OF STUDIES AND RESEARCH IN COMMERCE

Dr MANMOHAN SINGH BENGALURU CITY UNIVERSITY

Prasanna Kumara Block, Palace Road, Bengaluru-. 560 009

Proceedings of BOS Meeting

Proceedings of the BOS meeting for UG-B.COM (Regular), B.COM(FINTECH), B.COM AEDP (BFSI), B.Com AEDP(ROM),B.COM(BDA), B.Com (A&F), B.Com (LSCM), B.VOC(A&T),BBA,BBA (Aviation Management), BBA(Business Analytics), programmes as per the SEP structure for the Academic Year 2024-25 held on 3rd and 4th July 2024 in the Department of Studies and Research in Commerce, PK Block, Bengaluru City University, Bengaluru-560009.

The board has reviewed and approved the course matrix for 1st Semester to 6th Semester and syllabus for 1st and 2nd semesters of the above mentioned courses. The board authorized the Chairman to make the necessary changes.

MEMBERS:

1.	Prof. Jalaja .K.R	Dean and Chairperson , Department Of Commerce,BCU	Chairperson
2.	Dr.R. Sarvamangala	Dean And Chairperson , Department Of Commerce, BUB	Member
3.	Dr. Nagaraju.N	Professor, Department Of Commerce,University of Mysore	Member
4.	Dr. B.G.Baskar	Principal ,Seshadripuram College, Bengaluru	Member
5.	Dr. Padmaja.P.V	Principal , MLA Academy Of Higher Education, Bengaluru	Member
6.	Dr. Parvathi	Principal, VET First Grade College, Bengaluru	Member
7.	Dr. Raja Jebasingh	Vice-Principal, St.Joseph's College of Commerce(Autonomous)	Member
8	Dr.K.Ramachandra	Professor, Department Of Commerce,Maharani Cluster University.	Member

Co-Opted Members

9	Prof.Ritika Sinha	Chairperson, Department of Management, Bengaluru City University	Member
10	Prof.G.Venugopal	Principal VVN Degree College, Bengaluru	Member
11	Dr.Savita. K	Principal, BEL First Grade College, Bengaluru	Member
12	Dr.Bhavani.H	Associate Professor, Department Of Commerce, Vivekananda Degree College ,Bengaluru	Member
13	Mr. H.N Gururaja Rao.	Associate Professor, Department Of Commerce, Vijaya College, Bengaluru	Member
14	Dr.Swamynathan.C	Associate Professor, Department of Commerce, GFGC Malleshwaram College, Bengaluru	Member
15	Prof.H R Padmanabha	Vice-Principal, Sai Vidya First Grade College, Yelahanka.	Member

16	Dr.Srihari	Associate Professor, Department Of Commerce, SSMRV College, Bengaluru	Member
17	Dr.Nagaraja.C	Assistant Professor, Department Of Commerce, GFGC Yalahanka College ,Bengaluru	Member
18	Smt.Asha.N	Principal, Sindhi Degree College, Bengaluru	Member
19	Mr.Sharath M	Assistant Professor, Sindhi College.	Member
Industry Experts			
20	CMA .Geetha Sauthanagopalan	Partner GM Associates, Bangalore.	Member
21	CMA .Abhijeet S Jain	Chairman, Bengaluru Chapter of the Institute of Cost Accountants of India	Member
22	Mr. G Vijay Raghavan	Founder- Stockathon Academy, Bangalore	Member

Dr. JALAJA. K R, M.COM., MBA., Ph.D
Dean & Chairperson
Department of Commerce
Bengaluru City University

Proceedings of BOS Meeting

Proceedings of the BOS meeting for UG-B.COM (Regular), B.COM(FINTECH), B.COM AEDP (BFSI), B.Com AEDP(ROM), B.COM(BDA), B.Com (A&F),B.Com (LSCM), B.VOC(A&T),BBA, BBA(Aviation Management), BBA(Business Analytics), programmes as per the SEP structure for the Academic Year 2024-25 held on 20th and 21st June 2025 in the Department of Studies and Research in Commerce, PK Block, Bengaluru City University, Bengaluru-560009.

The board has reviewed and approved the course matrix for 3rd to 6th Semester and syllabus for 3rd, 4th, 5th and 6th semesters of the above mentioned courses. The board authorized the Chairman to make the necessary changes.

MEMBERS:

1.	Prof. Jalaja .K.R	Dean and Chairperson , Department Of Commerce, BCU	Chairperson
2.	Dr. Padmaja.P.V	Principal , MLA Academy Of Higher Education, Bengaluru	Member
3.	Dr.Bhavani.H	Associate Professor, Department Of Commerce, Vivekananda Degree College ,Bengaluru	Member
4.	Dr.Swamynathan.C	Associate Professor, Department of Commerce, GFGC Malleshwaram College, Bengaluru	Member
5.	Dr. Mahesh.K.M	Principal, Sri. Bhagawan Mahaveer Jain Evening College, Bengaluru	Member
6	Dr. S. Harish	Principal, Vijaya Evening College, Bengaluru-04	
7	Prof.H R Padmanabha	Associate Professor, M S Ramaiah College of Arts, Science and Commerce	Member
8	Dr.Nagaraja.C	Associate Professor, Department Of Commerce, GFGC Yalahanka College ,Bengaluru	Member
9	Dr. Anitha K P	Assistant Professor, Govt. R C College, Bengaluru	Member
10	Dr.K.Ramachandra	Principal, Maharani Cluster University.	Member
11	Dr. Ashok M L	Chairman, Dept. of Studies in Commerce and Research, Mysore University	Member
12	Mr. Deep	Sr. Advisor, CII Institute of Quality, Bengaluru-91	Member
13	Mr. RajkumarJayanth	Chartered Accountant, Rajbabu & Associates, Bengaluru-02	Member

Co-Opted Members

14	Dr. Pawan Kumar D B	Principal, SLN College of Arts and Commerce, Fort, Bengaluru	Member
15	Dr. Savita K	Principal, BEL First Grade College, Bengaluru	Member
16	Mr. H.N Gururaja Rao.	Visiting Faculty, SLN College of Arts and Commerce, Fort, Bengaluru	Member
17	Dr. Srihari	Vice Principal, MEWA Vanguard Business School, Bengaluru-68	Member

Dr. JALAJA. K R, M.COM., MBA., Ph.D
Dean & Chairperson
Department of Commerce
Bengaluru City University

Proceedings of BOS Meeting

Proceedings of the BOS meeting for UG-B.COM (Regular), B.COM(FINTECH), B.COM AEDP (BFSI), B.Com AEDP(ROM), B.COM(BDA), B.Com (A&F), B.Com (LSCM), B.Com (CMA), B.VOC(A&T), BBA, BBA(Aviation Management), BBA(Business Analytics), BBA(Digital Marketing), B. A Marketing programmes as per the SEP structure for the Academic Year 2026-27 held on 21st–22nd April and on 18th–19th May 2026, in the Department of Studies and Research in Commerce, PK Block, Dr Manmohan Singh Bengaluru City University, Bengaluru-560009.

The Board approved the course matrix and syllabus for the 5th and 6th semesters and authorized the Chairperson to make necessary modifications wherever required. The Board prepared and discussed the syllabus in detail during the meeting.

Upon deliberation, the Board observed the need for additional Skill Enhancement Courses and accordingly resolved to introduce Course Code 5.6 titled Employability Skills in the 5th semester and Course Code 6.6 titled Soft Skills in the 6th semester. Further, the Board resolved to introduce Finance as an elective option in the 3rd and 4th semesters. The above changes shall be applicable for students from the academic year 2026–27 onwards.

For B.Com AEDP (BFSI) and B.Com AEDP (ROM), students are required to undergo Internship during the 5th and 6th semesters. Hence, no syllabus was submitted for these semesters The Board reviewed and approved the course matrix for the 5th and 6th semesters, along with the syllabus for the 5th and 6th semesters of the above-mentioned courses, including the introduction of the Finance elective for the 3rd and 4th semesters. The Board also authorized the Chairperson to make necessary modifications, wherever required.

MEMBERS:

1.	Prof. Jalaja .K.R	Chairperson , Department Of Studies and Research in Commerce, Dr.MSBCU	Chairperson
2.	Dr. Padmaja.P.V	Principal , MLA Academy Of Higher Education, Bengaluru	Member
3.	Dr.Bhavani.H	Associate Professor, Department Of Commerce, Vivekananda Degree College ,Bengaluru	Member
4.	Dr.Swamynathan.C	Professor & Principal Department of Commerce, GFGC Malleshwaram College, Bengaluru	Member
5.	Dr. Mahesh.K.M	Principal, Sri. Bhagawan Mahaveer Jain Evening College, Bengaluru	Member
6	Dr. S. Harish	Principal, Vijaya Evening College, Bengaluru-04	Member
7	Prof. H R Padmanabha	Principal, Smt Gangamma Hombegowda First Grade College, Bengaluru.	Member
8	Dr.Nagaraja.C	Associate Professor, Department Of Commerce, GFGC Yalahanka College Bengaluru	Member
9	Dr. Anitha K P	Assistant Professor, Govt. R C College, Bengaluru	Member

10	Dr.K.Ramachandra	Principal, Maharani Cluster University.	Member
11	Dr. Ashok M L	Chairman, Dept. of Studies in Commerce and Research, Mysore University	Member
12	Mr. Deep	Sr. Advisor, CII Institute of Quality, Bengaluru-91	Member
13	Mr. RajkumarJayanth	Chartered Accountant, Rajbabu & Associates, Bengaluru-02	Member

Co-Opted Members

14	Dr. Pawan Kumar D B	Principal, SLN College of Arts and Commerce, Fort, Bengaluru	Member
15	Dr. Savita K	Principal, BEL First Grade College, Bengaluru	Member
16	Mr. H.N Gururaja Rao.	Visiting Faculty, SLN College of Arts and Commerce, Fort, Bengaluru	Member
17	Dr. Srihari	Vice Principal, MEWA Vanguard Business School, Bengaluru-68	Member

Dr. JALAJA. K R, M.COM., MBA., Ph.D
Dean & Chairperson
Department of Commerce
Bengaluru City University

Name of the Program: Bachelor of Commerce (FINTECH)
Course Code. 1.1
NAME OF THE COURSE: FINANCIAL ACCOUNTING

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to
a. Understand the theoretical frame work of accounting as well as Accounting standards.
b. Prepare Financial Statements from Incomplete records.
c. Work out the accounting treatments for Consignment transactions.
d. Learn various methods of Accounting for Hire Purchase transactions.
e. Work out various Accounting treatments for Dependent Branches.

SYLLABUS:	Hours
Unit - 1: Theoretical Framework of Accounting	**08**
Introduction-Meaning, Scope, Objectives, Importance and Functions of Accounting; Terminologies used in Accounting; Users of Accounting Information; Accounting Process; Cash basis and Accrual basis of Accounting; Branches of Accounting, Principles of Accounting, Concepts and Conventions; Accounting Standards-Indian Accounting Standards (Ind AS)-Meaning and Definition, Need and Objectives; Accounting Equations, Problems on Accounting Equations.	
Unit - 2: Conversion of Single Entry System to Double Entry System	**12**
Accounts from Incomplete Records/Single Entry System -Meaning, Features, Merits & Demerits; Conversion into Double Entry System, Need for Conversion; Preparation of Statement of Affairs, Cashbook, Memorandum Trading Account, Total Debtors Account, Total Creditors Account, Bills Receivable Account, Bills Payable Account &Trading and Profit & Loss and Balance Sheet-**Problems**	
Unit - 3: Consignment Accounts	**12**
Introduction–Meaning of Consignor, Consignee, Account Sales & Proforma Invoice; Goods Invoiced at Cost Price, Goods Invoiced at Selling Price, Accounting for Normal & Abnormal Loss; Valuation of Stock; Passing of Journal Entries & Preparation of Ledger Accounts in the books of Consignor only- **Problems**	
Unit - 4: Hire Purchase System	**12**
Meaning of Hire Purchase and Installment Purchase System, Difference between Hire Purchase and Installment Purchase, Important Definitions–Hire Purchase Agreement, Hire Purchase Price, Cash Price, Hire Purchase Charges; Calculation of Interest, Calculation of Cash Price; Journal Entries and Ledger Accounts in the books of Hire Purchaser only. (Asset Accrual Method only)- **Problems**	

Unit - 5: Branch Accounts	**12**
Meaning, Objectives and Advantages of Branch Accounting; Types of Branches- Meaning and Features of Dependent Branches, Independent Branches and Foreign Branches; Methods of maintaining Books of Accounts by the Head Office–Debtors System only when the goods are sent at Cost Price and Invoice Price & ascertainment of Profit or Loss of Branch under Debtors System – **Problems**	

Skill Development Activities:

1. Enlisting any **Five** Indian Accounting Standards
2. Preparation of Pro-form Invoice and Accounts sales with imaginary figures.
3. Prepare the Hire Purchase table with imaginary figures.
4. Prepare Branch Account with imaginary figures.

Books for Reference:

1. Robert N Anthony, David Hawkins, Kenneth A. Merchant, (2017) Accounting: Text and Cases, McGraw-Hill Education, 13th Edition.
2. S. Anil Kumar, V. Rajesh Kumar and B. Mariyappa – Financial Accounting, Himalaya Publishing House, New Delhi.
3. SP.Iyengar (2005), Advanced Accounting, Sultan Chand & Sons,Vol.1.
4. Charles T. Horn gren and Donna Phil brick, (2013) Introduction to Financial Accounting, Pearson Education,11th Edition.
5. J.R.Monga, Financial Accounting: Concepts and Applications. Mayur Paper Backs, New Delhi, 2nd Edition.
6. S.N.Maheshwari, and S.K.Maheshwari. Financial Accounting. Vikas Publishing House, New Delhi, 6th Edition.

Name of the Program: Bachelor of Commerce (FINTECH) Course Code: 1.2 NAME OF THE COURSE: INTRODUCTION TO FINANCIAL MARKETS		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the Students will be able to

a. Understand the concept and importance of investment. Know when and how to start investing.
b. Identify various investment options available.
c. Understand the functions of stock exchanges and the basics of equity, debt, derivatives, mutual funds, indices, depositories, and dematerialization.
d. Understand the functions of the securities market and the role of regulators like SEBI.
e. Identify the participants in the securities market and the primary market operations.

SYLLABUS:	HOURS
Unit-1: Introduction to Investment	**08**
What is Investment?, Why should one invest?, When to start Investing?, What care should one take while investing?, What is meant by Interest?, What factors determine interest rates?	
Unit- 2: Introduction to Investment	**10**
Various options available for investment, Short-term financial options available for investment, Long-term financial options available for Investment, Stock Exchange and its functions, Equity/Share, Debt Instrument, Derivative, Mutual Fund, Index, Depository, Dematerialization.	
Unit-3: Securities Market	**10**
What are Securities?, Function of Securities Market, Regulators of Securities Market (SEBI), Participants in Securities Market, Primary Market and its role, Issue of Shares, Face Value, Premium, and Discount.	
Unit- 4: Secondary Market & Trading	**14**
Secondary Market and its role, Stock Exchange and Demutualization, Stock Trading, Screen Based Trading, NEAT, placing orders, Contract Note, Brokerage, Products in Secondary, Markets: Equity and Debt Investments, Derivatives: Types and Commodity Market.	
Unit- 5: Mutual Funds, Depositories and Miscellaneous	**14**
Regulatory Body for Mutual Funds, Types of Mutual Funds and Investment Plans, NAV, Risks, Rights of Mutual Fund holders, Depositories, Depository Participants, ISIN, Corporate Actions, Stock Split, Buyback, Clearing & Settlement, Redressal, Index, Ratio Analysis.	

Skill Development Activities:

1. Draw the structure of Indian Financial Markets
2. Prepare the list of various financial instruments in Capital Market and Money Market
3. List out the various types of Mutual Funds
4. List out the various options available for Investments

Books for References:

1. “Financial Markets: Beginner’s Module” by NSE Academy
2. "The Intelligent Investor" by Benjamin Graham
3. "A Random Walk Down Wall Street" by Burton G. Malkiel
4. "Common Stocks and Uncommon Profits" by Philip Fisher

Name of the Program: Bachelor of Commerce (FINTECH)
Course Code:1.3
Name of the Course: BUSINESS ENVIRONMENT

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion, students will be able to:

a) Understand the components of Business Environment.
b) Analyse the various environmental factors influencing business organisation.
c) Design a competitive analysis for a specific Industry.
d) Understand the concept of Globalization and its impact on Domestic Businesses.

SYLLABUS:	HOURS
Unit- 1: Introduction to Business Environment	**12**
Business Environment-Meaning, Types of Business Environment – Internal and External, Micro-Environment and Macro- Environment of business; Competitive analysis of Business; Environmental analysis-Scanning, Monitoring, Forecasting, Assessment; Limitation of Environment Analysis.	
Unit- 2: Political and Legal Environment	**10**
Political Environment- Functions of the State, Role of Government, State intervention in business- Reasons for and Types of state intervention in business. **Legal environment**-Impact of various laws on Indian businesses.	
Unit-3: Economic and Global Environment	**14**
Economic Environment- Meaning, Nature and Components of the Economic Environment, Factors affecting Economic Environment. **Global environment** -Meaning of Globalisation, Approaches to Globalisation, Merits and demerits of Globalisation, Impact of Globalisation on Indian businesses; Foreign market entry strategies; MNCs and TNCs (concepts only).	
Unit- 4: Technological Environment	**10**
Technological Environment: Meaning and features of Technological Environment; Impact of Technological changes on business, Technology and Society, Technology Transfer- Meaning, Benefits and Challenges.	
Unit- 5: Demographic and Natural Environment	**10**
Demographic Environment- Meaning and components of Demographic environment; **Natural Environment**: Meaning and Features of Natural environment. Impact of Natural environment on business.	

Skill Development Activities:

a. List out the benefits of Technology on businesses.
b. Draft Five Forces Model for an Imaginary business.
c. List out the impact of Globalisation on Indian businesses
d. List out any five Demographic factors affecting businesses.

Books for References:

1. Aswathappa. K, Essentials Of Business Environment, HPH
2. Sundaram & Black: The International Business Environment; Prentice Hall
3. Francis Cherunilam, Business Environment- Text and Cases, 8th Edition, HPH
4. Chidambaram: Business Environment; Vikas Publishing
5. Upadhyay, S: Business Environment, Asia Books
6. Chopra, B K: Business Environment in India, Everest Publishing
7. M. Ashikary, Economic Environment of Business.
8. Veena Keshav Pailwar, Business Environment, PHI Learning Pvt. Ltd
9. Vivek Mittal, Business Environment, 1st Edition, Excel Books

Name of the Program: Bachelor of Commerce (FINTECH)
Course Code:1.4
NAME OF THE COURSE: INTRODUCTION TO DATA ANALYTICS FOR FINANCE

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able

a. Understand the role and importance of data analytics in finance.
b. Apply appropriate data collection methods and techniques..
c. Utilize EDA tools and techniques to derive actionable insights from financial data.
d. Understand the principles of predictive modeling and its applications in finance.
e. Apply regression analysis and forecasting techniques to financial data.

SYLLABUS	HOURS
Unit 1: Fundamentals of Data Analytics	**10**
Introduction to data analytics in finance, Basics of data visualization and interpretation, Statistical concepts and analysis techniques, Introduction to data mining and machine learning in finance.	
Unit – 2: Data Collection and Preparation	**10**
Data sources in finance and banking, Data collection methods and techniques, Data cleaning and preprocessing, Data integration and transformation.	
Unit – 3: Exploratory Data Analysis (EDA)	**12**
Exploring and summarizing financial data, Visualizing financial trends and patterns, Descriptive statistics and key performance indicators (KPIs), EDA tools and techniques in finance.	
Unit – 4: Predictive Analytics in Finance	**12**
Introduction to predictive modeling, Regression analysis and forecasting techniques, Time series analysis for financial data, Credit risk assessment and prediction models.	
Unit – 5 : Advanced Topics in Data Analytics for Finance	**12**
Machine learning algorithms for finance (e.g., decision trees, random forests), Sentiment analysis and social media data in finance, Fraud detection and prevention using analytics, big data analytics and cloud computing in finance.	

Skill Development

1. Calculate and interpret descriptive statistics and key performance indicators (KPIs) in finance.
2. Conduct time series analysis to analyze temporal patterns in any financial data.
3. Conduct sentiment analysis and analyze any social media data's impact on financial markets.
4. Demonstrate proficiency in data visualization and interpretation techniques.

Books for reference:

1. "Data Science for Business: What You Need to Know About Data Mining and Data Analytic Thinking" by Foster Provost and Tom Fawcett
2. "Python for Data Analysis" by Wes McKinney

Name of the Program: Bachelor of Commerce (FINTECH)
Course Code: 2.1
NAME OF THE COURSE: ADVANCED FINANCIAL ACCOUNTING

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to

a. Understand & Compute the amount of Claims for Loss of Stock.
b. Understand and preparing the accounts for converting Partnership Firms to Limited Companies.
c. Deal with the Inter-Departmental Transfers and their Accounting Treatment.
d. Articulate the Accounting treatment for Royalty Agreements & Transactions.
e. Outline the Emerging Trends in the field of Accounting

SYLLABUS:	HOURS
Unit - 1: Insurance Claims for Loss of Stock	**12**
Insurance Claims- Meaning, Need and Advantages of Fire Insurance; Special terminologies in Fire Insurance Claims – Insurer, Insured, Premium, Salvage, Insurance Policy, Sum Assured, Under Insurance, Over Insurance, Average Clause; Ascertainment of Fire Insurance Claim including on Abnormal Line of Goods- **Problems**	
Unit - 2: Sale to a Company or Conversion of Partnership to a Limited Company	**12**
Introduction-Meaning of Sale or Conversion of Partnership-Meaning of Purchase Consideration – Methods of Calculating Purchase Consideration, Closing the books of Partnership Firm (Ledger Accounts only): Passing Opening Journal Entries and preparing Opening Balance Sheet (Vertical form) in the books of Company - **Problems**	
Unit - 3: Departmental Accounts	**12**
Meaning and Features of Departmental Undertakings; Examples of Department Specific Expenses and Common Expenses; Need and Bases of Apportionment of Common Expenses; Preparation of Statement of Profit in Columnar form, Statement of General Profit/Loss and Balance Sheet(Vertical form only); Inter-Departmental Transfers at Cost Price - **Simple Problems**	
Unit - 4: Royalty Accounts	**12**
Introduction-Meaning, Terms used in Royalty Agreement- Lessee, Lessor, Minimum Rent, Short Workings, Recoupment of Short Workings with Strike and Lockout Periods; Accounting Treatment in the book of Lessee only–Journal Entries and Ledger Accounts including Minimum Rent Account. (Excluding Sub-Lease and Lessor's books)- **Problems**	
Unit - 5: Emerging Trends in Accounting	**08**
Digital transformation of Accounting; Big Data Analytics in Accounting; Cloud Computing in Accounting; Green Accounting; Human Resource Accounting; Inflation Accounting; Database Accounting.**(Meaning and Features only)**	

Skill Development Activities:

1. List out the Procedure & Documentation involved in the Insurance claims.
2. Calculate the Purchase Consideration with imaginary figures (Any type).
3. Identify the common expenses of a Departmental Undertaking and list them
4. Prepare Royalty Table with imaginary figures.

Reference Books:

1. S.N. Maheshwari and S.K. Maheshwari. Financial Accounting. Vikas Publishing House, New Delhi, 6th Edition.
2. S.AnilKumar,V.RajeshKumarandB.Mariyappa–FinancialAccounting,Himalaya Publishing House, New Delhi
3. SP Iyengar (2005),Advanced Accounting, Sultan Chand & Sons,Vol.1.
4. Robert N Anthony, David Hawkins, Kenneth A. Merchant, (2017) Accounting: Text and Cases, McGraw-Hill Education, 13thEdition.
5. Charles T. Horngren and Donna Phil brick,(2013) Introduction to Financial Accounting, PearsonEducation,11thEdition.
6. J.R. Monga, Financial Accounting: Concepts and Applications. Mayur Paper Backs, New Delhi,32nd Edition.

Name of the Program: Bachelor of Commerce (FINTECH)
Course Code: 2.2
Name of the Course: MUTUAL FUNDS - VA SERIES - NISM

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the Course, the students will be able to:

a) Identify and describe various mutual fund schemes, their features, and objectives.
b) Assess different investment strategies, including active vs. passive management and the benefits of systematic plans like SIPs, STPs, and SWPs.
c) Understand the fund management process and the role of Asset Management Companies (AMCs).
d) Evaluate mutual fund performance using key performance indicators, such as NAV, alpha, beta, and Sharpe ratio.
e) Compare fund performance against benchmarks to determine effectiveness.

SYLLABUS:	HOURS
Unit-1: Introduction to Mutual Funds	**10**
Overview of Mutual Funds, Definition and key concepts, History and evolution of mutual funds in India, Structure and Types of Mutual Funds, Open-ended vs. close-ended funds, Equity funds, debt funds, hybrid funds, and other types, Benefits of Investing in Mutual Funds, Diversification, professional management, liquidity, Regulatory Environment, Role of SEBI in regulating mutual funds, Key regulations and compliance requirements.	
Unit-2: Mutual Fund Projects and Investment Strategies	**14**
Mutual Fund Schemes, Equity schemes, debt schemes, hybrid schemes, solution-oriented schemes, Understanding the features and objectives of different schemes, Investment Strategies, Active vs. passive management, Growth vs. value investing, Systematic Investment Plans (SIPs), Benefits and mechanics of SIPs, SIP vs. lump sum investments, Other Systematic Plans, Systematic Transfer Plans (STPs) and Systematic Withdrawal Plans (SWPs).	
Unit-3: Mutual Fund Operations and Performance Evaluation	**12**
Mutual Fund Operations, Fund management process, Role of Asset Management Companies (AMCs), Understanding NAV (Net Asset Value), Performance Evaluation, Key performance indicators (KPIs) for mutual funds, Risk-adjusted returns, alpha, beta, Sharpe ratio, Benchmarking and Comparison, Importance of benchmarks, Comparing fund performance against benchmarks.	
Unit-4: Sales and Distribution of Mutual Funds	**14**
Distribution Channels, Direct vs. indirect distribution, Role of distributors, financial advisors, and banks, Sales Practices, Investor profiling and suitability assessment, Ethics and best practices in selling mutual funds, Investor Communication, Importance of effective communication, Regular updates and transparency	

Unit-5: Taxation and Investor Services	**08**
Taxation of Mutual Funds, Tax implications for different types of funds, Capital gains tax, dividend distribution tax, Tax-saving mutual funds (ELSS), Investor Services, KYC (Know Your Customer) process, Online services and transactions, Grievance Redressal, Handling investor grievances, Role of AMFI (Association of Mutual Funds in India) in investor protection.	

Skill Development Activities:

1. Distinguish between different types of mutual funds and their structures.
2. Evaluate any mutual fund performance using key performance indicators, such as NAV, alpha, beta, and Sharpe ratio.
3. List out the role of Asset Management Companies (AMCs).
4. Write a note on KYC required for purchasing Mutual Funds

Books for References:

1. Aswathappa, Human Resource Management- Text and Cases (9th Edition), McGraw Hill Education (India) Private Ltd.
2. Edwin Flippo, Personnel Management, McGraw Hill
3. C. B. Mamoria, Personnel Management, HPH
4. K. Venkataramana, Human Resource Management, SHBP
5. Subba Rao, Personnel and Human Resources Management, HPH
6. Reddy & Appanaiah, Human Resource Management, HPH
7. S. Sadri & Others: Geometry of HR, HPH
8. Michael Porter, HRM and Human Relations, Juta & Co. Ltd.

Name of the Program: Bachelor of Commerce (FINTECH)
Course Code: 2.3
Name of the Course: BUSINESS REGULATIONS

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the Course, the students will be able to:

a. Comprehend the laws relating to Contracts and its application in business activities.
b. Comprehend the rules for Sale of Goods and rights and duties of a buyer and a seller.
c. Understand the significance of Consumer Protection Act and its features
d. Understand the need for Environment Protection.

SYLLABUS:	HOURS
Unit-1: Regulations of Contracts-1	**14**

Introduction – Definition of Contract, Essentials of Valid Contract;

Offer and acceptance- Offer and Acceptance and their various types, Intention to create legal relationship, Communication of Offer and Acceptance, Revocation and mode of revocation of offer and acceptance.

Consideration- Meaning and nature of Consideration, Exceptions to the rule- No Consideration- No Contract, Adequacy of consideration, Present and past consideration, Unlawful consideration and its effects

Contractual capacity-Meaning of Capacity to Contract, Incapacity to contract- Minors, Persons of Unsound Mind, Disqualified agreements, Effects of Minors Agreement.

Unit-2: Regulations of Contracts-2	**14**

Consent- Meaning of Consent and Free Consent; Meaning and Effects of Coercion, Undue Influence, Fraud, Misrepresentation, Mistake in an agreement.
Performance of Contract- Rules regarding Performance of Contracts, Joint Promisors, Impossibility of Performance, Quasi contracts & its performance.
Discharge of a Contract- Meaning of Discharge and modes of Discharging a Contract – Novation, Remission, Accord, Satisfaction and Breach-Anticipatory Breach and Actual breach.
Remedies for Breach of Contract- Remedies under Indian Contract Act 1872-Damages, Types of Damages.

Unit-3: Contracts of Sale of Goods	**12**

Concept of Goods, Sale of Goods v. Agreement to Sell, Contract of Sale of Goods, Performance of a Contract of Sale of Goods, Meaning and Types of Conditions and Warranties, Meaning and Rights of an Unpaid Seller.

Unit-4: Law of Consumer Protection	**08**

Definitions of the terms – Consumer, Consumer Protection, Consumer Dispute, Defect, Deficiency, Unfair Trade Practices, Rights of Consumer under the Act, Consumer Redressal-Meaning and Agencies – District Forum, State Commission and National Commission.

Unit-5: Law of Environmental Protection	**08**

Introduction - Objectives of the Act, Definitions of Important Terms – Environment, Environment Pollutant, Environment Pollution, Hazardous Substance and Occupier, Types of Pollution, Powers of Central Government to protect Environment in India.

Skill Development Activities:

1. Discuss the contents of the case of “Carlill vs Carbolic Smoke Ball Company” case
2. Discuss the contents of the case of “Mohori Bibee v/s Dharmodas Ghose”.
3. List out any five rights of a consumer.
4. List at least 5 items which can be categorized as ‘hazardous substance’ according to Environment Protection Act.

Books for References:

1. M.C. Kuchhal, and Vivek Kuchhal, Business Law, Vikas Publishing House, New Delhi.
2. N.D. Kapoor, Business Laws, Sultan Chand Publications
3. Avtar Singh, Business Law, Eastern Book Company, Lucknow.
4. SN Maheshwari and SK Maheshwari, Business Law, National Publishing House, New Delhi.
5. Aggarwal S K, Business Law, Galgotia Publishers Company, New Delhi
6. Bhushan Kumar Goyal and Jain Kinneri, Business Laws, International Book House
7. P C Tulsian and Bharat Tulsian, Business Law, McGraw Hill Education
8. Sharma,J.P. and Sunaina Kanojia, Business Laws, Ane Books Pvt. Ltd., New Delhi
9. Chanda.P.R, Business Laws, Galgotia Publishing Company

Name of the Program: Bachelor of Commerce (FINTECH)
Course Code: 2.4
NAME OF THE COURSE: STATISTICAL METHODS USING ADVANCED DATA ANALYTICS

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the Course, the students will be able to:

a. Conduct exploratory data analysis and implement key statistical methodologies.
b. Use advanced statistical methods and machine learning algorithms for predictive analytics.
c. Proficiently use statistical software and programming languages for data analysis.
d. Create and interpret advanced data visualizations and translate results into actionable insights.
e. Apply statistical techniques to real-world data sets and critically evaluate the results.
f. Understand and apply ethical considerations and best practices in data analytics.

SYLLABUS:	HOURS
Unit-1: FOUNDATIONS OF STATISTICAL METHODS	**12**
Overview of Statistics and Data Types, Descriptive Statistics: Central Tendency and Variability, Probability Theory and Distributions, Inferential Statistics: Estimation and Hypothesis Testing	
Unit-2: REGRESSION, ANOVA and CORRELATION	**12**
Simple and Multiple Linear Regression (Least Squares Estimation, Model Fit and Residuals Analysis, Interpretation of Coefficients, Model Selection (Adjusted R-squared, AIC, BIC), Logistic Regression (Binary Outcomes and Odds Ratios, Model Diagnostics), Correlation Analysis (Pearson and Spearman Correlation, Significance Testing), One-way and Two-way ANOVA (Post-hoc Tests (Tukey's HSD)	
Unit-3: ADVANCED STATISTICAL METHODS AND MACHNE LEARNING	**12**
Time-Series Analysis-Components and Stationarity, ARIMA Models, Forecasting), Principal Component Analysis (PCA) (Dimensionality Reduction, Eigenvalues and Eigenvectors, Visualizing Components), Cluster Analysis and Factor Analysis (Hierarchical and K-means Clustering, Distance Metrics, Cluster Validation), Supervised Learning: Classification and Regression (Classification (Decision Trees, SVM), Regression (Regression Trees, Neural Networks), Model Evaluation (Accuracy, MSE), Unsupervised Learning: Clustering and Association	
Unit-4: STATISICAL SOFTWARE AND DATA VISUALIZATION	**10**
Introduction to R and Python for Data Analysis (Basics of R and Python for Data Analysis, Data Manipulation with pandas (Python) and dplyr (R), Data Manipulation and Cleaning (Handling Missing Data, Data Transformation	

Techniques Creating Visualizations with ggplot2 (R) and matplotlib/seaborn (Python), Interactive Visualizations with Plotly, Advanced Data Visualization Techniques with Tools like Tableau, PowerBI (Using Tableau for Data Visualization, Creating Dashboards with PowerBI	
Unit-5: CAPSTONE PROJECTS AND ETHICS	**10**
Real-world Data Analysis Project, Application of Comprehensive Skills to Practical Problems, Presentation and Reporting of Findings, Ethical Issues in Data Analysis, Best Practices for Data Management	

Skill Development Activities:

1. Conduct exploratory data analysis on any research topic and implement key statistical methodologies.
2. Use advanced statistical methods for predictive analytics.
3. Create and interpret advanced data visualizations on any topic
4. Apply statistical techniques to any real-world data sets and critically evaluate the results.

Books for Reference:

1. "Applied Multivariate Statistical Analysis" by Richard A. Johnson and Dean W. Wichern
2. "The Elements of Statistical Learning" by Trevor Hastie, Robert Tibshirani, and Jerome Friedman
3. "Introduction to the Practice of Statistics" by David S. Moore, George P. McCabe, and Bruce A. Craig

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code. 3.1
Name of the Course: CORPORATE ACCOUNTING

COURSE CREDITS	NO. OF HOURSPER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to

a. Understand the treatment of underwriting of Shares & Debentures
b. Comprehend the computation of profit prior to incorporation.
c. Know the valuation of Goodwill.
d. Know the valuation Shares.
e. Prepare the financial statements of Companies as per the New Companies Act 2013.

SYLLABUS:	HOURS
Unit-1: Underwriting of Shares and Debentures	**12**
Introduction - Meaning of Underwriting – SEBI regulations regarding underwriting; Underwriting Commission- Types of Underwriting – Firm Underwriting, Open Underwriting - Marked and Unmarked Applications –Determination of Liability in respect of Underwriting Contracts – when shares and debentures are fully and partially underwritten, with and without firm underwriting - Problems relating to Underwriting of Shares and Debentures of Companies only.	
Unit- 2: Profit Prior to Incorporation	**10**
Meaning, Calculation of Sales Ratio, Time Ratio, Weighted Ratio, Treatment of Capital and Revenue Expenditure; Ascertainment of Pre-Incorporation and Post Incorporation profits by preparing Statement of Profit and Loss and Preparation of Balance Sheet (Vertical Format) as per schedule III of Companies Act, 2013.	
Unit-3: Valuation of Goodwill	**10**
Meaning and Factors influencing Goodwill; Valuation of Goodwill; Circumstances under which Goodwill is valued; Methods of Valuation of Goodwill- Average Profit Method, Capitalization of Average Profit Method, Super Profit Method, Capitalization of Super Profit Method, and Annuity Method-Problems (Based on both Simple and Weighted Average)	
Unit- 4: Valuation of Shares	**10**
Meaning and Need for Valuation; Methods of Valuation - Intrinsic Value Method, Yield Method, Fair Value Method; Valuation of Preference Shares - Problems.	
Unit- 5: Financial Statements of Companies	**14**
Statutory Provisions regarding Preparation of Financial Statements of Companies as per schedule III of New Companies Act 2013 and IND AS-1; Treatment of Special Items – Tax deducted at source, Advance payment of Tax, Provision for Tax, Depreciation, Interest on Debentures, Dividends; Rules regarding payment of dividends – Transfer to Reserves; Preparation of Statement of profit and loss and Balance Sheet.	

Skill Development Activities:

1. Determine Underwriters' Liability in case of an IPO, with imaginary figures.
2. Prepare the format of 'Statement of Profit and loss with imaginary figures.
3. Prepare Balance Sheet with imaginary figures.
4. Calculate the intrinsic value of shares under Net Asset Method.

Books for References:

1. J.R. Monga, Fundamentals of Corporate Accounting. Mayur Paper Backs, New Delhi
2. V.K. Goyal and Ruchi Goyal, Corporate Accounting. PHI Learning.
3. P. C. Tulsian and Bharat Tulsian, Corporate Accounting, S.Chand
4. S. P. Jain and K. L. Narang – Corporate Accounting
5. Anil Kumar .S, Rajesh Kumar.V and Mariyappa .B, Corporate Accounting, HPH.
6. S P Iyengar, Advanced Accountancy, Sultan Chand
7. R L Gupta, Advanced Accountancy

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 3.2
Name of the Course: Financial Analytics with R

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to
a. Explain fundamental financial concepts and analy8cs techniques.
b. Employ R programming for data manipula8on, analysis, and visualization.
c. Create and interpret financial models for valuation, risk assessment, and forecas8ng.
d. Perform comprehensive data analysis and visualiza8on to support financial decision making.
e. Implement portfolio op8miza8on techniques and risk management strategies.
f. Present data-driven insights and recommendations effectively.

SYLLABUS:	HOURS
Unit-1: Introduction to Financial Analytics and R	**10**
Overview of Financial Analytics, Introduction to R Programming, Importing and Managing Financial Data in R, Exploratory Data Analysis (EDA) in Finance, Introduction to Statistical Concepts in Finance, Basics of Financial Markets, Data Sources for Financial Analytics, Overview of R Packages for Financial Analysis, RStudio IDE Features and Functions, Data Visualization in R for Finance.	
Unit- 2: Data Handling and Visualization in R	**10**
Data Import from Various Sources, Data Cleaning and Preprocessing, Data Transformation Techniques, Introduction to Data Visualization, Basic Plotting in R, Advanced Visualization Techniques, Interactive Visualization with Shiny, Working with Large Datasets: Techniques for Efficient Handling, Customizing Visualizations: Themes, Labels, and Annotation, Exporting Visualizations: Saving Plots and Dashboards.	
Unit-3: Financial Modeling in R	**12**
Time Series Analysis, ARIMA Models, Forecasting Techniques, Discounted Cash Flow (DCF) Analysis, Valuation Models, Monte Carlo Simulation, Sensitivity Analysis, Scenario Analysis, Building Financial Dashboards, Model Validation and Testing, Regression Models.	
Unit- 4: Financial Analytics and its applications	**14**
Machine Learning Techniques for Financial Analysis, Predictive Modeling for Financial Forecasting, Algorithmic Trading Strategies, Time Series Analysis and Forecasting, Sentiment Analysis in Finance, Network Analysis in Financial Markets, Text Mining.of Skewness - Calculation of Karl Pearson's Co-efficient of Skewness only- Problems	
Unit- 5: Advanced Financial Analytics and Capstone Project	**10**
Introduction to Natural Language Processing (NLP) for Financial Data, Bayesian Methods in Finance, and Financial Fraud Detection and Prevention.	

Skill Development Activities:
1. Data extraction, cleaning, and exploratory data analysis using www.kaggle.com
2. Data visualization and interactive dashboards creation activity
3. Risk simulation using interactive tools
4. Capstone project

Books for References:

1. "R for Data Science" by Hadley Wickham and GarreO Grolemund
2. "Quan8ta8ve Financial Analy8cs: The Path to Investment Profits" by Edward E. Williams and John C. Navin
3. "Financial Risk Modelling and Pornolio Op8miza8on with R" by Bernhard Pfaf

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 3.3
Name of the Course: COST ACCOUNTING

COURSE CREDITS	NO. OF HOURSPER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to

a. Demonstrate an understanding of the concepts of costing and cost accounting.
b. Demonstrate the ability to prepare a Cost Statement.
c. Prepare material related documents, understand the management of stores and issue procedures.
d. Demonstrate the ability to Calculate Wages and Bonus.
e. Classify, allocate, and apportion overheads and Calculate Overhead absorption rates.

SYLLABUS:	HOURS
Unit.1: Introduction to Cost Accounting	**8**
Introduction- Meaning and definition- Objectives, Importance and Uses of Cost Accounting, Difference between Cost Accounting and Financial Accounting; Various Elements of Cost and Classification of Cost; Cost object, Cost unit, Cost Centre; Cost reduction and Cost control. Limitations of Cost Accounting.	
Unit- 2: Cost Sheet	**12**
Cost Sheet - Meaning and Cost heads in a Cost Sheet, Preparation of Cost Sheet - Problems on Cost Sheets (including Unit costing and Tenders & Quotations).	
Unit-3: Material Cost	**10**
Material Cost: Meaning, Importance of Material cost; Types of Materials – Direct and Indirect Materials; **Procurement-** Procedure for procurement of materials and documentation involved in materials accounting; **Material Storage**: Duties of Store keeper; **Issue of Materials-** Pricing of material issues, Preparation of Stores Ledger Account under FIFO, LIFO, Simple Average Price and Weighted Average Price Methods – Problems. **Materials control**. - Techniques of Inventory Control - Problems on Level Setting and EOQ.	
Unit- 4: Labour Cost	**12**
Labour Cost: Meaning and Types of Labour Cost –Attendance Procedure-Time keeping and Time booking and Payroll Procedure; Idle Time- Causes and Treatment of Normal and Abnormal Idle time, Over Time; Labour Turnover: Meaning, Causes and Effects of labour turnover; (theory only). **Methods of Wage Payment:** Time rate system and piece rate system; Incentive schemes - Halsey plan, Rowan plan, Taylor's differential piece rate and Merrick's multiple piece rate system, –problems based on calculation of wages and earnings.	
Unit- 5: Overheads	**08**
Overheads: - Meaning and Classification of Overheads; Accounting and Control of Manufacturing Overheads; Collection, Allocation, Apportionment, Re-apportionment and Absorption of Manufacturing Overheads; **Problems** on Primary and Secondary overheads distribution using Reciprocal Service Methods (Repeated Distribution Method and Simultaneous Equation Method); **Absorption of Overheads:** Meaning and Methods of Absorption of Overheads (Concept only); **Machine Hour Rate-** Meaning and Problems on calculation of Machine Hour Rate.	

Skill Development Activities:

1. Mention the causes of labour turnover in manufacturing organizations.
2. Name any five documents used for material accounting.
3. Prepare a dummy Payroll with imaginary figures.
4. List out the various overhead items under Factory, administrative, Selling & distribution overheads (six items each).

Books for References:

1. Jain, S.P. and K.L. Narang. Cost Accounting: Principles and Methods. Kalyani Publishers
2. Arora, M.N. Cost Accounting – Principles and Practice, Vikas Publishing House, New Delhi.
3. Maheshwari, S.N. and S.N. Mittal. Cost Accounting: Theory and Problems. Shri Mahavir Book Depot, New Delhi.
4. Iyengar, S.P. Cost Accounting, Sultan Chand & Sons
5. Charles T. Horngren, Srikant M. Datar, Madhav V. Rajan, Cost Accounting: A Managerial Emphasis, Pearson Education.
6. Jawahar Lal, Cost Accounting., McGraw Hill Education
7. Made Gowda J, Cost Accounting, HPH.
8. Rajiv Goel, Cost Accounting, International Book House
9. Mariyappa B Cost Accounting, HPH

Name of the Program: BACHELOR OF COMMERCE (FINTECH) Course Code: 3.4 Name of the Course: Fundamental Analysis in Capital Markets with Coding and Automation		
COURSE CREDITS	NO. OF HOURSPER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to:

1. Evaluate a company's intrinsic value using financial statements, ratios, and economic indicators.
2. Construct financial models to forecast a company's financial performance.
3. Apply valuation techniques to determine the fair value of stocks.
4. Write code to automate data collection, analysis, and reporting.
5. Use programming languages such as Python or R for financial analysis.
6. Screen stocks and identify trading opportunities using Chartink.

SYLLABUS:	HOURS
Unit.1: Introduction to Fundamentals Analysis	**8**
Basics of Fundamental Analysis, Definition and importance, Key components: financial statements, ratios, and economic indicators, Financial Statements Analysis, Income statement, balance sheet, and cash flow statement, Key financial ratios and their interpretations	
Unit.2: Financial Modeling and Valuation	**12**
Building Financial Models, Projecting financial statements, Sensitivity analysis and scenario planning, Valuation Techniques, Discounted Cash Flow (DCF) analysis, Price-to-Earnings (P/E) and Price-to-Book (P/B) ratios	
Unit.3: Coding and Automation for Financial Analysis	**14**
Introduction to Coding for Finance, Overview of programming languages: Python and R, Basics of coding for financial analysis, Automation Techniques, automating data collection from financial websites and APIs, creating automated analysis and reporting tools.	
Unit.4: Technical Analysis and Screening with Chartink	**14**
Introduction to Chartink, Overview of Chartink features and capabilities, setting up and navigating the Chartink platform, Screening and Technical Analysis, Using Chartink to screen stocks based on technical indicators, Integrating fundamental and technical analysis.	
Unit.5: Practical Applications and Case Analysis	**8**
Case Studies in Fundamental Analysis, Evaluation of investment opportunities, Automation Projects, Developing and implementing automation tools for financial analysis, Presenting and reporting findings	

Skill Developments Activities:

1. Algo research in fundamental analysis using screeners.in
2. Creating excel for financial modelling
3. Algo research in technical analysis using www.chartink.com
4. Creating a report on fundamental analysis as per SEBI norms.

Books for References:

1. "Financial Statement Analysis and Security Valua8on" by Stephen Penman
2. "Python for Finance: Mastering Data-Driven Finance" by Yves Hilpisch
3. "Investment Valua8on: Tools and Techniques for Determining the Value of Any Asset" by Aswath Damodaran

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: B.Com SEC 3.5
Name of the Course: CORPORATE COMMUNICATION SKILLS

COURSE CREDITS	NO. OF HOURSPER WEEK	TOTAL NO. OF TEACHING HOURS
2 CREDITS	3 HOURS	30 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Review of Journals and Books etc.

Course Outcomes: On successful completion of the course, the students will be able to

a) Identify the importance of Business correspondence
b) understand the different types of Business Communication
c) Learn different types of communication skills
d) Understand and write the different types of Business Letters

SYLLABUS:	HOURS
Unit-1: FUNDAMENTALS OF COMMUNICATION	**08**
Introduction - Meaning of Communication; Purpose or Objectives of Communication; Process or Stages of Communication; Principles of Effective Communication; Barriers to Effective Communication; Types of Communication (Meaning & Features) – Interpersonal, Intrapersonal, Internal, External, Upward, Downward, Lateral, One-way, Two-way, Verbal and Non-verbal communication, Formal & Informal, Cross Cultural Communication; Scope of Communication; Limitations of Communication.	
Unit-2: COMMUNICATION SKILLS	**12**
Reading skills – Meaning; Importance of Reading Skills; Reading comprehension skills – Literal, Evaluative, Inferential; Types of Reading Techniques – Skimming, Scanning, Intensive, Extensive and Guidelines for improving Reading Skills. **Listening skills** – Meaning; Importance of Listening; Types of listening (Meaning and Benefits of each type of Listening) – Attentive, Reflective, Discriminative, Comprehension, Critical, Biased, Evaluative, Appreciative, Sympathetic & Empathetic; Barriers to listening; Overcoming barriers to listening. **Note taking skills** – Meaning and Importance; Methods – Outline Method, Cornell Method, Mapping Method, Charting Method, Box & Bullet Method. **Presentation skills** – Meaning of Presentation in Business Communication; Importance of Presentation Skill in Business; Types of Presentations (Meaning, Pros & Cons of each type) – Informative, Instructional, Progress Reporting, Persuasive, Decision making, Problem Solving.	
Unit-3: BUSINESS LETTERS	**10**
Types of Business letters- Enquiries & replies, Offers and Quotation, Orders and their execution, Complaints & ATRs, Remittance letters, Sales letters, Follow-up letters, Circular letters, Agency letters, Status enquiries, Collection letters. AI tools in Business Communication	

Skill Development Activities:

1. Draft a Quotation with imaginary content.
2. List out the various parts of Business Letter.
3. List any 5 AI tools used for Business Communication.
4. Identify at least three barriers to listening you experience daily and propose strategies to overcome them.

Books for References:

1. C.S. Raydu, Corporate Communication, HPH
2. Rai & Rai, Business Communication, HPH
3. S.P. Sharman, Bhavani.H, Corporate Communication, VBH
4. K. Venkataramana, Corporate Communication, SHBP
5. Rajkumar, Basic Business Communication: Concepts, Applications and Skills, Excel Books
6. Taylor, Shirley, Communication for Business : A Practical Approach, Pearson Education
7. Peter URS Bender, Robert. A.Traez, Secrets of Face to Face Communication, Macmillan India
8. Vilanilam,J.V, More Effective Communication: A manual for Professionals, Response Books
9. Guptha.C.B, Business Communication and Customer Relations, Sulthan Chand
10. Guptha,C.B, Business Communication and Organization and Management, Sulthan Chand
11. Subhash Jagota, Succeeding Through Communication, Excel Books
12. Chopra,R.K, Communication Management, HPH
13. Nageshwara Rao Das, Rajendra.P, Communication Skills, HPH
14. Ghanekar, Anjali, Communication Skills for Effective Management, Everest Publishing House
15. Mandal.S.K, Effective Communication and Public Speaking, Jaico publishing House
16. Jetwaney, Jaishri, Corporate Communication, Oxford university Press

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 4.1
Name of the Course: ADVANCED CORPORATE ACCOUNTING

COURSE CREDITS	NO. OF HOURSPER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to

a. Know the procedure of Redemption of Preference Shares and Debentures.
b. Comprehend the different methods of Amalgamation and Acquisition of Companies.
c. Understand the process of Internal reconstruction.
d. Understand the process of Liquidation of Companies.
e. Prepare the liquidators Final statement of accounts.

SYLLABUS:	HOURS
Unit-1: Redemption of Preference Shares	**08**
Meaning – Legal Provisions – Treatment of premium on redemption – creation of Capital Redemption Reserve Account– Fresh issue of shares – Arranging cash balance for the purpose of redemption – minimum number of shares to be issued for redemption – issue of bonus shares – preparation of Balance sheet after redemption (As per Schedule III of Companies Act 2013).	
Unit- 2: Redemption of Debentures	**08**
Meaning – Types of Debentures – Methods of Redemption of Debentures – Lump sum Method, Instalment Method, Sinking Fund Method, Insurance Policy Method (Problems only on Sinking Fund method of Redemption of Debentures)	
Unit-3: Amalgamation and Acquisition of Companies	**14**
Meaning of Amalgamation and Acquisition – Types of Amalgamation – Amalgamation in the nature of Merger – Amalgamation in the nature of Purchase - Methods of Calculation of Purchase Consideration (IND AS - 103), Net asset Method - Net Payment Method and Lumpsum method, Accounting for Amalgamation (Problems under purchase method only) –Ledger Accounts in the Books of Transferor Company and Journal Entries in the books of Transferee Company – Preparation of Balance Sheet after Amalgamation and Acquisition. (As per Schedule III of Companies Act 2013)	
Unit- 4: Internal Reconstruction of Companies	**12**
Meaning of Capital Reduction; Objectives of Capital Reduction; Provisions for Reduction of Share Capital under Companies Act, 2013. Forms of Reduction. Accounting for Capital Reduction. Problems on passing Journal Entries, preparation of Capital Reduction Account and Balance sheet after reduction (Schedule III to Companies Act 2013).	
Unit- 5: Liquidation of Companies	**12**
Meaning of Liquidation, Modes of Winding up – Compulsory Winding up, Voluntary Winding up and winding up subject to Supervision by Court. Order of payments in the event of Liquidation. Liquidator’s Statement of Account. Liquidator’s remuneration. Problems on preparation of Liquidator’s Final Statement of Account.	

Skill Development Activities:

1. List out legal provisions in respect of Redemption of Preference shares.
2. Calculation of Purchase consideration with imaginary figures under Net Asset Method.
3. List out legal provisions in respect of internal reconstruction.
4. Prepare Liquidator’s Final Statement of Account with imaginary figures.

Books for References:

1. Arulanandam & Raman ; Corporate Accounting-II, HPH
2. Dr. Venkataraman. R – Advanced Corporate Accounting
3. RL Gupta, Advanced Accountancy, Sultan Chand
4. Shukla and Grewal – Advanced Accountancy, Sultan Chand
5. Anil Kumar S, Rajesh Kumar.V and Mariyappa B, Advanced Corporate Accounting, HPH.
6. S P Iyengar, Advanced Accountancy, Sultan Chand
7. Srinivas Putty - Advanced Corporate Accounting, HPH.

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 4.2
Name of the Course: Derivatives Analysis - NISM Series VIII

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the Students will be able to

1. Apply the cost of carry model to price futures contracts and understand the concept of basis.
2. Define and explain the key concepts and terminology related to options, such as call and put options, strike price, and premium.
3. Describe the intrinsic and time value of options and the factors affecting option prices.
4. Apply the Black-Scholes model and other options pricing models.
5. Understand the use of exotic options and other complex derivatives in financial markets

SYLLABUS:	HOURS
Unit-1: Introduction to Derivatives	**10**
Basics of Derivatives, Definition and key concepts, Types of derivatives: Forwards, Futures, Options, and Swaps, History and evolution of the derivatives market in India and globally, Participants in the Derivatives Market, Hedgers, speculators, and arbitrageurs, Regulatory Framework, Role of SEBI in regulating derivatives, Key regulations and compliance requirements	
Unit- 2: Future Contracts	**10**
Understanding Futures Contracts, Contract specifications and terminology, Mechanics of futures trading, Pricing of Futures, Cost of carry model, Basis and its implications, Trading Strategies Using Futures, Hedging strategies, Speculative strategies, Arbitrage opportunities	
Unit-3: Option Contracts	**12**
Understanding Options Contracts, Call and put options, Options terminology: strike price, premium, expiration date, Options Pricing Models, Intrinsic value and time value, Introduction to the Black-Scholes model, Factors affecting option prices, Trading Strategies Using Options, Basic strategies: buying and selling calls and puts, Advanced strategies: spreads, straddles, strangles, and combinations	
Unit- 4: Swaps and other Derivatives	**12**
Swaps, Interest rate swaps and currency swaps, Mechanics and applications of swaps, Other Derivatives, Exotic options, Credit derivatives, Weather and energy derivatives, Risk Management Using Derivatives, Role of derivatives in risk management.	
Unit- 5: Derivatives Market Operations and Analysis	**12**
Derivatives Market Operations, Trading, clearing, and settlement processes, Role of Clearing houses and margin requirements, Analyzing Derivative Markets, Technical analysis for derivatives trading, Fundamental analysis for derivatives trading, Ethical and Regulatory Considerations, Best practices in derivatives trading, Regulatory and ethical issues in the derivatives market.	

Skill Development Activities:

1. Implementing the hedge strategies using Front page simulation
2. Margin calculation for hedging using zerodha and Pentad website
3. Deriving the payoff graph for Futures strategy using www.sensibull.com
4. Deriving the payoff graph for Options strategy using www.sensibull.com

Books for References:

1. Derivatives Analysis by NISM Series VIII
2. "Options, Futures, and Other Derivatives" by John C. Hull
3. "Derivatives: Principles and Practice" by Sundaram and Das
4. "Fundamentals of Futures and Options Markets" by John C. Hull

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: B.Com 4.3
Name of the Course: RESEARCH METHODOLOGY

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom lectures, tutorials, Group discussion, Seminar, Case studies & field work, WBL, literature reviews etc.,

Course Outcomes: On successful completion of the course, the students will be able to

a. Explain the fundamental concepts, scope, and methodologies of business research.
b. Apply appropriate research problem formulation, hypothesis development, and sampling techniques to real-world business scenarios.
c. Analyse collected data using statistical tools and techniques to derive meaningful business insights.
d. Critically evaluate research findings and test hypotheses using appropriate statistical methods.
e. Design and develop a well-structured research report with proper interpretation, visualization, and ethical considerations.

SYLLABUS:	HOURS
Unit 1: Introduction to Business Research	**10**
Research: Meaning, Purpose, Scientific method, types of research; scope of business research. Review of literature: need, purpose, notes taking.	
Unit 2: Research Design	**12**
Selection and formulation of a research problem, formulation of hypothesis, operational definition of concepts, sampling techniques. Research Design: Meaning, nature, process of preparation, components of research design.	
Unit 3: Data Collection and Processing	**12**
Data: Sources of data, methods, of collection; observation interviewing, mailing; tools for collection data; interview schedule, interview guide, questionnaire, rating scale, socio-metry, check list; pre-testing of tools, pilot study. Processing of data; checking, editing, coding, transcription, tabulation, preparation of tables, graphical representation.	
Unit 4: Tools for Data Analysis	**12**
Statistical Techniques: Descriptive Statistics -Mean, Median, Mode, Standard Deviation, Mean Deviation and Quartile Deviation; Inferential Statistics -t-test, Chi-square test and ANOVA & Regression analysis [Meaning and application of each in Business Research]. **Data analysis tools for Social Science Research**: Python, R, SPSS, Tableau and Excel (Concepts and application only)	
Unit 5: Research Reports	**10**
Research Reports- Characteristics of good Research Report, types of reports, style of report writing, Steps in drafting the Report.	

Skill Developments Activities:

1. Design a questionnaire for a research study
2. List the different types of sampling techniques with suitable examples.
3. List the statistical software tools used in social science research.
4. Write a sample research report outline with an introduction, methodology, and conclusion.

Books for References:

1. Dr. M. Ranganatham, O R Krishnaswami, P N Harikumar: Research Methodology , Himalaya Publishing House.
2. C.R. Kothari, Research Methodology: Methods and Techniques, New Age International Publishers 3rd Edition.
3. Wayne C. Booth, Gregory G. Colomb, Joseph M. Williams, Joseph Bizup, and William T. Fitzgerald, "The Craft of Research", University of Chicago Press, Fourth Edition.
4. Ingeman Arbnor and Björn Bjerke, Methodology for Creating Business Knowledge, Sage Publications, 3rd Edition.
5. Krishna G. Palepu and Paul M. Healy, Business Analysis and Valuation: Using Financial Statements, Cengage Learning, 5th Edition.
6. Joseph F. Hair Jr., Mary Celsi, Arthur H. Money, Phillip Samouel, and Michael J. Page, Essentials of Business Research Methods, Routledge 5th Edition.
7. Satyaprasad and D. R. Satya Raju, Business Research Methods, Himalaya Publishing House 2nd edition.
8. Navdeep Kaur and Dr. Pawan Kumar Taneja, Business Research Methods: A South-Asian Perspective, Kalyani Publishers 1st Edition.

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: B.Com. 4.4
Name of the Course: Python for Finance

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to

1. Proficiency in Python programming with a focus on financial applications.
2. Ability to manipulate, analyses, and visualize financial data.
3. Skills to develop, test, and optimize financial models and trading algorithms.
4. Competence in applying advanced techniques such as machine learning in finance
5. Experience in conducting a thorough financial analysis project from start to finish.

SYLLABUS:	HOURS
Unit-1: Introduction to Python and Finance	**14**
Python Programming Basics, Data Types: Strings, Integers, Floats, Control Structures: If Statements, Loops Functions in Python, Basic Financial Concepts, Time Value of Money, Risk and Return, Setting Up Python Environment, Using Anaconda, Introduction to Jupyter Notebook.	
Unit-2: Financial Data Analytics	**10**
Pandas Library, Importing Financial Data, Cleaning and Pre-processing Data, Data Visualization with Matplotlib and Seaborn, Plotting Financial Data, Time Series Analysis, Forecasting Financial Trends, Pandas Library and Data Structures, Data Manipulation and Transformation, Handling Missing Data, Exploratory Data Analysis (EDA), Statistical Analysis of Financial Data, Advanced Data Visualization Techniques, Correlation and Covariance Analysis, Financial Data Aggregation and Grouping	
Unit- 3: Financial Modelling	**12**
Implementing Financial Models in Python, Python Libraries for Financial Modelling (e.g., NumPy, SciPy), Valuation Models in Python, Regression Analysis with Python, Discounted Cash Flow (DCF) Modelling in Python, Monte Carlo Simulations in Python, Sensitivity Analysis with Python, Scenario Analysis using Python, Model Validation and Testing in Python, Integrating Python Models with Financial Data Sources	
Unit-4: Algorithmic Trading	**10**
Implementing Algorithmic Trading Strategies in Python, Python Libraries for Algorithmic Trading (e.g., QuantLib, Zipline), Back testing Trading Algorithms with Python, Performance Evaluation Metrics using Python, Real-time Data Streaming and Processing in Python, Developing Customized Trading Signals in Python, Regulatory Compliance and Legal Considerations for Python-based Trading Systems	
Unit- 5: Advanced Topics and Capstone Project	**10**
Machine Learning Applica8ons in Finance, Sentiment Analysis and Natural Language Processing (NLP), Advanced Algorithmic Trading Strategies, Risk Management in Advanced Financial Analysis, developing a Comprehensive Capstone Project, Presenting Findings and Recommendations, Peer Review and Feedback Sessions, Incorporating Ethical Considerations in Financial Analysis, Future Trends in Python for Finance	

Skill Development Activities: 1. Financial data manipula8on, EDA, and visualiza8on using pandas / Jupyter 2. Financial modeling and value/on techniques using Google Colabs 3. Algorithmic trading and backtes/ng using QuantConnect 4. NLP and machine learning in finance using Google Colabs
Books for References: 1. "Python Crash Course" by Eric MaOhes 2. "Python for Data Analysis" by Wes McKinney 3. Finance and Financial Modeling: 4. "Principles of Corporate Finance" by Richard Brealey and Stewart Myers 5. "Financial Modeling" by Simon Benninga

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: SEC 4.5
Name of the Course: SECURITY TRADING

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
2 CREDITS	3 HOURS	30 HOURS

Pedagogy: Classrooms lecture, tutorials, and Problem Solving.

Course Outcomes: On successful completion of the course, the students will be able to:

a. Understand the fundamentals of investments and the investment environment.
b. Able to compare and evaluate different investment opportunities.
c. Comprehend the structure and composition of Indian Securities market.
d. Learn the mechanism involved in online stock trading.

Syllabus:	Hours
Unit 1: Basics of Investment and Investment Environment	**08**
Fundamentals of Investment, Features of Investment, Investment Environment. Principles of sound Investment. The Investment Decision Process. Modes of Investment – Direct Investing and Indirect Investing, Approaches to Investing – Active Investing and Passive Investing. Risk Return Trade Off. Types of Securities – Equity Shares, Bonds and Debentures, and Government Securities. Alternative Investments (Briefly) – Mutual Funds, Derivatives, Unit Linked Insurance Policy (ULIP), Exchange-traded funds (ETFs), Collective Investment Schemes (CIS), Real Estate Investment Trusts (REITs). Criteria for Evaluation of Investment Alternatives.	
Unit 2: Indian Securities Market	**10**
Securities Market – Capital Market and Money Market, Difference between Capital and Money Market, Primary and Secondary Market, Difference between Primary and Secondary Market. Over the Counter (OTC) and Exchange Traded market. Modes of offering Equity Shares – Initial Public Offering (IPO), Follow-on Public Offering (FPO), Difference between IPO and FPO, Difference between Offer for sale (OFS) and Public offer (IPO/FPO). Methods of IPO Pricing – Fixed Price Method and Book Building Method, The Book Building Process, Fixed Price method v/s Book building Method. Market Participants – Issuer of Securities, Investors, and Intermediaries. Role of Stock Exchange. Stock Exchanges in India. Securities (Stock) Indices – Broad Market Indices, Sectoral Indices and Thematic Indices.	
Unit 3: Online Securities Trading	**12**
Trading Mechanism on Exchanges, Trading and Settlement at NSE – National Securities Clearing Corporation Limited (NSCCL), Clearing Mechanism, Clearing & Settlement (Equities). Online Trading – Introduction, Online Trading Mechanism. Online Real Time Price Quotations – Bid Price, Ask Price, Bid-Ask Spread, Tick Size, LTP, ATP. Circuit Breakers – Upper Circuit, Lower Circuit, NSE rules regarding Circuit Breaks. Price Bands, Rules regarding Price Bands on NSE. Electronic Order Book. Types of Orders – Market Order, Annexure - V GENERIC ELECTIVE (GE) Limit Order, Stop Loss Order, Stop Loss (Limit) Order, Stop Loss (Market) Order, After Market Order (AMO). Order Conditions – Price related conditions, Time related conditions, Quantity related conditions. Placing an Order,	

View/Modify/Cancel an Order.

Skill Developments Activities:

1. List out the modes of Investment
2. List out the Book Building Methods
3. List out any 5 Companies which have issued FPOs
4. List the different types of Price Quotations.

Books for References:

1. Tripathi, Vanita and Panwar, Neeti: Investing in Stock Markets. Taxmann Publications.
2. Chandra, Prasanna: Investment Analysis and Portfolio Management. McGraw Hill Education.
3. Rustagi, R.P., Investment Management. Sultan Chand Publications.
4. Tripathi, Vanita: Security Analysis and Portfolio Management. Taxmann Publications.

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 5.1
Name of the Course: Currency and Commodity Derivatives and its Operations

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Lab Sessions , Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to
a) Describe the functions and significance of derivatives in financial markets.
b) Apply methodologies to price currency and commodity derivatives.
c) Analyze the factors that influence the valuation of these derivatives.
d) Formulate trading strategies for currency and commodity derivatives.
e) Implement hedging techniques to manage exposure to currency and commodity price risks.

SYLLABUS:	HOURS
Unit-1 : Introduction to Currency and Commodity Derivatives	**08**
Basics of Derivatives, Definition and types, Importance and functions in financial markets, Participants in the Derivatives Market, Hedgers, speculators, and arbitrageurs, Regulatory Framework, Overview of regulations governing currency and commodity derivatives in India	
Unit- 2: Pricing and Valuation of Derivatives	**14**
Pricing Currency Derivatives, Forward and futures pricing models, Interest rate parity and exchange rate determination, Pricing Commodity Derivatives, Cost of carry model, Factors influencing commodity prices, Valuation Methods, Intrinsic value and time value, Use of pricing models and software tools	
Unit-3: Trading and Hedging Strategies	**14**
Currency Derivatives Strategies, Speculative strategies: long and short positions, hedging strategies: forwards, futures, and options, Commodity Derivatives Strategies, Speculative strategies: trend following, mean reversion, hedging strategies: using futures and options to manage price risk, Risk Management Techniques, managing currency risk, Managing commodity price risk.	
Unit- 4: Market Operations and Infrastructure	**14**
Market Structure and Participants, Exchanges, clearinghouses, and brokers, Role of market makers and liquidity providers, Trading Mechanisms, Order types and execution, Clearing and settlement processes, Regulatory and Compliance Aspects, SEBI and FMC regulations, Compliance requirements and ethical practices	
Unit- 5: Strategies applications on Currency & Commodity Derivatives	**06**
Case Studies on Currency Derivatives, Analysis of real-world scenarios and trading strategies, Case Studies on Commodity Derivatives, Evaluation of hedging techniques and market trends, Simulations and Practical exercises in pricing, trading, and hedging, Developing and execution of trading strategies.	

Skill Development Activities:

1. "Currency Derivatives: Pricing Theory, Exotic Options, and Hedging Applications" by David F. DeRosa
2. "Commodity Derivatives: Markets and Applications" by Neil C. Schofield
3. "Options, Futures, and Other Derivatives" by John C. Hull
4. Currency Derivatives by NCFM
5. Derivatives Markets by NCFM

Books for References: (Latest Editions)

1. "Currency Derivatives: Pricing Theory, Exotic Options, and Hedging Applications" by David F. DeRosa
2. "Commodity Derivatives: Markets and Applications" by Neil C. Schofield
3. "Options, Futures, and Other Derivatives" by John C. Hull
4. Currency Derivatives by NCFM
5. Derivatives Markets by NCFM

E- Resource Links:

6. Securities and Exchange Board of India (SEBI): Provides regulatory updates, circulars, and guidelines related to derivatives markets https://www.sebi.gov.in/
7. MCX India Commodity Derivatives: Information about commodity derivatives trading on the Multi Commodity Exchange of India. https://www.mcxindia.com/
8. Investopedia – Derivatives: Comprehensive resource covering various aspects of derivatives. https://www.investopedia.com/terms/d/derivative.asp

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 5.2
Name of the Course: Data Visualization with Power BI in Finance

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Lab Sessions , Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to
a) Efficiently navigate the Power BI interface and utilize its core functionalities.
b) Import, clean, and transform financial data in Power BI.
c) Design various types of financial visualizations (charts, graphs, maps).
d) Build interactive and real-time dashboards for financial analysis.
e) Analyze and interpret financial data to provide actionable insights.
f) Integrate and automate data workflows using Power BI.

SYLLABUS:	HOURS
Unit-1: Introduction to Power BI and Financial Data	**12**
Importance of Data Visualization in Finance, Introduction to Power BI, Basic Concepts and Terminology, Types of Financial Data Visualizations, Best Practices in Financial Data Visualization, Ethical Considerations in Financial Data Visualization, Future Trends in Financial Data Visualization, Data Sources and Quality in Finance, Regulatory Compliance and Reporting Standards, Visualization Tools and Software Landscape, Visualization Case Studies in Finance, Interactive Dashboards and User Experience Design.	
Unit-2: Data Preparation and Transformation	**12**
Data Importing and Connection, Data Cleaning and Quality Assurance, Data Transformation Techniques, Creating Calculated Columns and Measures, Data Modeling and Relationships, Advanced Data Transformations, Data Refresh and Scheduled Updates, Data Security and Privacy, Optimization and Performance Tuning, Integration with External Data Services.	
Unit-3: Financial Data Visualization	**14**
Understanding Financial Metrics and KPIs, Selection of Appropriate Visualizations for Financial Data, Interactive Financial Dashboards Design, Time-Series Analysis and Forecasting, Comparative Analysis and Benchmarking, Financial Ratio Analysis, Scenario Analysis and Sensitivity Modeling, Risk Management Visualization, Geospatial Visualization of Financial Data, Custom Visualization Development for Financial Analysis.	
Unit-4: Building Interactive Financial Dashboards	**10**
Selection of Key Financial Metrics, Dashboard Layout and Design Principles, Incorporating Interactive Features (e.g., Slicers, Filters), Implementing Drill-down Functionality, Utilizing Bookmarks and Buttons for Navigation, Integration of Advanced Visualizations, Dynamic Filtering and Cross-highlighting, Data Refresh and Scheduled Updates, Implementing User Security and Access Controls, Mobile Optimization and Responsive Design.	
Unit-5: Advanced Features and Integration	**08**
Custom Visualizations Development, Integration with External Data Sources, Data Modeling	

and Relationships, Advanced DAX Formulas, Power Query M Language for Complex Transformations, Advanced Data Visualization Techniques, AI and Machine Learning Integration, Real-time Data Streaming and Analysis, Custom Scripting with R and Python, Integration with Azure Services.

Skill Development Activities:

1. Prepare the list of Functions of Finance Manager.
2. As a finance manager of a company, design an appropriate Capital Structure.
3. Evaluate a capital investment proposal by using NPV method with imaginary figures.
4. Calculate EBIT and EPS with imaginary figures.

Books for References:

10. "Pro Power BI Desktop" by Adam Aspin
11. "Financial Modeling in Power BI" by Daniil Kleyman
12. "Analyzing Data with Power BI and Power Pivot for Excel" by Alberto Ferrari and Marco Russo

E- Resource Links:

13. https://docs.microsoft.com/en-us/power-bi/
14. https://www.coursera.org/
15. https://www.edx.org/
16. https://www.youtube.com/user/guyinacube

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 5.3
Name of the Course: INCOME TAX LAW & PRACTICE -I

COURSE CREDITS	NO. OF HOURSPER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to

a) Understand the basic concepts of Income Tax as per Income Tax Act 1961 & Recent amendments
b) Understand the provisions for determining the residential status of an Individual.
c) Comprehend the meaning of Salary, Perquisites, allowances and Profit in lieu of salary, and various retirement benefits.
d) Compute the income from house property for different categories of house property.
e) Comprehend the assessment procedure and to know the power of income tax authorities.

Note :

- **The provisions of the Income-tax Act, 1961 shall be applicable only for the Academic Year 2026–27.**
- **The provisions of the Income-tax Act, 2025, which came into effect from 1 April 2026, shall be applicable from the Academic Year 2027–28 onwards.**

SYLLABUS:	HOURS
Unit-1 : Basic Concepts of Income Tax	**08**
Introduction –Meaning of tax- types of taxes and canons of taxation, Important definitions, assessment year, previous year including exceptions, assesses, person, income, casual income, Gross Total Income, Total Income, Agricultural Income, Tax Rates (Old and New Regimes)- Exempted incomes of individuals under section 10.	
Unit- 2: Assessment Procedure and Income Tax Authorities	**08**
Meaning of Assessment - Types of Assessment– Regular Assessment- Self Assessment – Best Judgement Assessment- Summary Assessment – Scrutiny Assessment – Income Escaping Assessment - Permanent Account Number -Meaning, Procedure for obtaining PAN and transactions were quoting of PAN is compulsory. Income Tax Authorities their Powers and functions. CBDT, CIT and AO.	
Unit. 3: Residential Status and Incidence of Tax	08
Introduction – Residential status of an individual. Determination of residential status of an individual. Incidence of tax or Scope of Total income. Problems on computation of Gross total Income of an individual (excluding deductions U/S 80)	
Unit-4: Income from Salary	**18**
Introduction - Meaning of Salary -Basis of charge- Definitions–Salary, allowances, Perquisites and profits in lieu of salary - Provident Fund - Retirement Benefits – Gratuity, pension and Leave salary. Deductions U/S 16 and Problems on Computation of Taxable Salary.	
Unit- 5: Income from House Property	**12**
Introduction - Basis of charge - Deemed owners -House property incomes exempt from tax, Vacancy allowance and unrealized rent. Annual Value –Determination of Annual Value- Deductions U/S 24 from Net Annual Value - Problems on Computation of Income from House Property.	

Skill Development Activities:

1. Prepare slab rates chart for different Individual assesses (Old Regime).
2. List out any 6 Incomes exempt from tax under section 10 of an Individual.
3. Draw an organization chart of Income Tax Authorities.
4. Prepare the chart of perquisites received by an employee in an organization.

Books for References:

1. Mehrotra H.C and T.S.Goyal, Direct taxes, Sahithya Bhavan Publication, Agra.
2. Vinod K. Singhania, Direct Taxes, Taxman Publication Private Ltd, New Delhi.
3. Gaur and Narang, Law and practice of Income Tax, Kalyani Publications, Ludhiana.
4. Bhagawathi Prasad, Direct Taxes.

NOTE: This syllabus is subject to changes as per the amendments made in Income Tax Act annually.

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 5.4
Name of the Course: GOODS AND SERVICES TAX

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom lectures, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the students will be able to
a) Comprehend the concepts of Goods and Services tax.
b) Understand the fundamentals of GST.
c) Understand the GST Registration Process.
d) Analyze the GST Procedures in Business.
e) Know the GST Assessment and it computation

SYLLABUS:	HOURS
Unit-1: Introduction to GST	**10**
Introduction-Meaning and Definition of GST, Objectives, Features, Advantages and Disadvantages of GST, Taxes subsumed under GST, Structure of GST (Dual Model) - CGST, SGST and IGST. GST Council, Composition, Powers and Functions. CGST Act-2017-Features and Important definitions	
Unit-2: GST Registration and Taxable Event	**10**
Registration under GST provision and process. Amendment and cancellation of registration, Taxable-event- Supply of goods and services - Meaning, Scope and types – composite supply, Mixed supply. Determination of time and place of supply of goods and services. Levy and collection of tax. List of exempted goods and services-Problems.	
Unit-3: Input Tax Credit	**12**
Input Tax Credit - Eligible and Ineligible Input Tax Credit; Apportionments of Credit and Blocked Credits; Tax Credit in respect of Capital Goods; Recovery of Excess Tax Credit; Availability of Tax Credit in special circumstances; Transfer of Input tax, Reverse Charge Mechanism, tax invoice, Problems on input tax credit	
Unit-4: GST Assessment	**12**
Tax Invoice, Credit and Debit Notes, Returns, Audit in GST, Assessment: Self- Assessment, Summary and Scrutiny. Special Provisions. Taxability of E-Commerce, Anti-Profiteering, and Avoidance of dual control- issues in filing of returns, monthly collection targets, GST Council meetings.	
Unit-5: Valuations of Goods and Services Under GST	**08**
Introduction to Valuation under GST, Meaning and Types of Consideration: a) Consideration received through money b) Consideration not received in money c) Consideration received fully in money. Valuation rules for supply of goods andservices:1) General Valuation Rules; 2) Special Valuation Rules; Other cases for valuation of supply, imported services, imported goods, valuation for discount. Transaction Value: Meaning and conditions for transaction value, inclusive transaction value, and exclusive discount excluded from transaction value. Problems on GST.	

Skill Development Activities: 1. Prepare a tax invoice under the GST Act. 2. Write the procedure for registration under GST. 3. Prepare a chart showing rates of GST. 4. List out the exempted Goods and Services under GST.
Books for References: 1.V.S. Datey, Goods and ServicesTaxes, Taxman. 2.Sathpal Puliana, M.A. Maniyar, Glimpse of Goods and Service Tax, Karnataka Law Journal Publications, Bangalore. 3.Pullani and Maniyar,Goods and ServiceTax, Published by Law Journal,Bangalore. 4.H.C. Mehrotra and V.P.Agarwal,Goods and Services Tax. 5.H.C.Mehotra and S.P.Goyal,Goods and Services Tax. 6. G.B. Baligar, Goods and Services Tax, Ashok Prakashan,Hubli.

NOTE: This syllabus is subject to changes as per the amendments made in GST Act annually.

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 5.5
Name of the Course: COSTING METHODS

COURSE CREDITS	NO. OF HOURSPER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to

a. Understand the various methods of costing applicable to different industries.
b. Determine the cost under different methods of costing.
c. Analyze the Steps involved in different methods of Costing
d. Understand the Meaning and Steps in Activity Based Costing

SYLLABUS:	HOURS
Unit-1: Job Costing and Batch Costing	**08**
Job Costing: Meaning, Features, Objectives, Applications, Advantages and Disadvantages, Job cost sheet- Simple problems. **Batch Costing:** Meaning, difference between Job and Batch costing; Process of accumulation and calculation; Determination of EBQ- problems	
Unit- 2: Contract Costing	**14**
Contract Costing: Meaning, features of Contract costing, Applications of Contract Costing, Differences between Job costing and Contract costing; Terms used in Contract Costing; Treatment of profit on complete and incomplete contracts-Problems on Preparation of Contract account and Contractee's account for 1to 3 Years (including Trial Balance and Balance Sheet problems).	
Unit-3: Process Costing	**14**
Process costing: Meaning, features and applications of Process Costing; Differences between Job Costing and Process Costing; Treatment of process losses and gains in Process accounts; preparation of Process Accounts - Problems	
Unit- 4: Operating Costing	**12**
Introduction to Operating Costing; Application of Operating Costing; Cost components and Cost units for different services - Transport Services, Hospital and Educational institutions; Problems on preparation of Operating Cost Statement for Transport service only	
Unit- 5 : Recent Trends in Costing	**08**
Target Costing, Zero based budgeting, Responsibility Accounting, Product Life cycle costing, Focus Costing, Lean Costing (Meaning and features only)	

Skill Development Activities:

1. Prepare and Job Cost Sheet with imaginary figures.
2. Prepare the methods of calculating notional profits for contracts at different stages of Completion with imaginary figures.
3. List any five organizations using Process Costing.
4. Identify the costs associated with Life cycle costing

Books for References:

1. 1. S P Jain and K L Narang, Advanced Cost Accounting, Kalyani Publications,
2. Robert S Kaplan and Anthony A Atkinson, Advanced Management Accounting, PHI, New Delhi.
3. Arora, M.N. Methods of Cost Accounting –, Vikas Publishing House, New Delhi.
4. Shank and Govindrajan, Strategic Cost Management, Simon and Schuster, 36 New York.
5. Lin Thomas, Cases and Readings in Strategic Cost Management, McGraw Hill Publications, New York.
6. John K Shank and Vijaya Govindarajan; Strategic Cost Management; Free Press Publication; New York
7. Mariyappa B Methods and Techniques of Costing., HPH.

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 5.6
Name of the Course: Employability Skills

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
2 CREDITS	2 HOURS	30 HOURS

Pedagogy: Classroom Lectures, Problem Solving Sessions, Mock Tests, Case Studies, Group Discussions, Practice Worksheets, Computer-Based Test Simulations, and Career Guidance Sessions.

Course Outcomes: On successful completion of the course, the students will be able to:
a) Understand the structure and pattern of major competitive examinations.
b) Develop quantitative aptitude and logical reasoning abilities.
c) Enhance business, financial, banking, and economic awareness.
d) Improve English language and communication skills required for competitive exams.
e) Prepare effectively for Banking, Insurance, SSC, UPSC, CMA, CA, CS, CAT, and other commerce-oriented examinations.

Syllabus	Hours
Unit 1- Introduction & Quantitative Aptitude for Competitive Exams	**12**
Overview of Competitive Examinations in India – Banking Sector Exams (IBPS, SBI, RBI, NABARD); Insurance Sector Exams (LIC/NICL); SSC & Civil Services– UGC NET Commerce – CAT/Management Entrance Tests – Professional Courses (CA, CMA, CS, CFA, ACCA) – Eligibility, Exam Pattern, Selection Procedure, Career Opportunities, and Preparation Strategies. Number System – HCF &LCM, – Ratio and Proportion – Percentages – Profit and Loss – Simple and Compound Interest – Average – Time and Work – Time, Speed and Distance – Partnership –Data Interpretation – Charts and Graphs.	
Unit 2- Logical Reasoning and Analytical Ability	**10**
Verbal Reasoning: Coding-Decoding – Blood Relations – Seating Arrangement – Syllogisms – Direction Sense – Puzzle Tests – Statement and Assumptions – Data Sufficiency – Series Completion – Logical Sequencing – Input/Output – Analytical Reasoning Non-Verbal Reasoning: Mirror Images – Figure Analysis – Cubes and Dice.	
Unit 3- Business Communication and Comprehensive Solving	**08**
Vocabulary Building – Grammar – Sentence Correction – Reading Comprehension – Para Jumbles – Fill in the Blanks – Cloze Test – Synonyms and Antonyms – Idioms and Phrases – Business Communication – Report Writing Basics – Email Etiquette – Interview Communication Skills.	

Books for Reference:

1. R.S. Aggarwal – Quantitative Aptitude for Competitive Examinations
2. R.S. Aggarwal – Modern Approach to Verbal and Non-Verbal Reasoning
3. Arihant Publications – General English for Competitive Exams
4. Lucent Publications – General Knowledge
5. Pratiyogita Darpan – Competitive Examination Resources
6. Banking Awareness by Arihant Experts
7. Objective Commerce by S.P. Jain & K.L. Narang

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 5.7
Name of the Course: CAPSTONE PROJECT

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
2 CREDITS	2 HOURS	30 HOURS

Expected Project Report Format

1. Abstract
2. Introduction (Problem Statement, Objectives, Scope, Applications)
3. Literature Survey
4. System Analysis (Existing System, Proposed System, Advantages, Tools & Technologies)
5. System Design (Architecture, Flowchart, Module Design)
6. Methodology / Implementation
7. Testing and Validation
8. Results and Discussion
9. Conclusion and Future Scope
10. References

CONTENTS OF THE CAPSTONE PROJECT REPORT.

Module I: Project Identification and Planning
Topics
1. Introduction to Capstone Project
2. Introduction to FinTech
3. FinTech Applications
4. Banking and Digital Financial Services
5. Business Problem Identification
6. Project Topic Selection
7. Problem Statement
8. Project Objectives
9. Scope and Applications
10. Project Proposal Preparation
11. Project Planning

Practical Activities
- Select a project domain.
- Identify a business problem.
- Prepare the project proposal.
- Define objectives and project scope.

Module II: Literature Review and Dataset Collection (8 Hours)
Topics
1) Literature Review
2) Review of Existing Systems
3) Industry Reports and Similar Projects
4) Gap Identification
5) Financial Data Sources

6) Primary and Secondary Data
7) RBI, NSE, BSE, Government Open Data
8) Kaggle Datasets
9) Survey Design (Google Forms) (Optional)
10) Dataset Documentation

Practical Activities

- Review existing projects and reports.
- Identify the project gap.
- Collect and document financial datasets.
- Identify business KPIs.

Module III: Data Preparation and Financial Data Analysis (12 Hours)

Topics

1. Data Import and Cleaning
2. Data Transformation
3. Exploratory Data Analysis (EDA)
4. Descriptive Statistics
5. Correlation and Regression Analysis
6. Financial Ratio Analysis
7. Business KPI Analysis
8. Data Visualization

Practical Activities

- Clean and prepare datasets.
- Perform data analysis using Excel, SPSS, R, or Python.
- Generate statistical summaries and charts.

Module IV: Solution Development, Machine Learning and Dashboard Development (20 Hours)

Topics

1) Financial Analytics
2) Predictive Analytics
3) Machine Learning Techniques
4) Model Development and Evaluation
5) Power BI Dashboard Development
6) KPI Design
7) Business Intelligence
8) Data Visualization
9) Business Recommendations

Practical Activities

- Develop analytical or machine learning models using Python, R, SPSS, or Excel.
- Design interactive dashboards using Power BI.
- Generate business insights and recommendations.

Module V: Testing, Documentation, Presentation and Viva (12 Hours)

Topics

1. Testing and Validation
2. Project Documentation

3. Report Writing
4. Result Interpretation
5. Conclusion and Future Scope
6. PowerPoint Presentation
7. Project Demonstration
8. Viva Voce

Practical Activities

- Test and validate project outputs.
- Prepare the final report.
- Develop presentation slides.
- Demonstrate the project and attend viva.

LOG SHEETS: To be attached after Annexures

Guidelines for Survey Project Report Preparation

1. The FinTech Capstone Project shall be carried out during the Fifth and/or Sixth Semester of the B.Com (FinTech) Programme.
2. The project may be undertaken individually or in groups (3–5 students), subject to departmental approval.
3. The project shall address a real-world financial, banking, investment, taxation, insurance, digital payments, business analytics, or FinTech problem.
4. The project report shall be prepared in Microsoft Word and submitted in both soft copy and hard/Soft bound form.
5. The report should contain 80–120 pages, excluding annexures.
6. The report shall be prepared using Times New Roman with:
   - Heading Font Size: 14
   - Text Font Size: 12
   - Line Spacing: 1.5
   - Text Alignment: Justified
7. Students may use Primary Data, Secondary Data, or both, depending on the project requirements.
8. Authentic datasets shall be collected from sources such as: RBI,NSE ,BSE ,Government Open Data ,Kaggle ,Annual Reports ,Banking Databases , Financial Institutions , Surveys (Google Forms)
9. Appropriate analytical techniques shall be used, including:
   - Descriptive Statistics
   - Financial Analysis
   - Business Analytics
   - Predictive Analytics
   - Machine Learning (where applicable)
10. Students are encouraged to develop interactive dashboards using Microsoft Power BI or Microsoft Excel.
11. Source code, datasets, dashboards, and project files shall be submitted along with the final report.
12. The report shall be free from grammatical and spelling errors.
13. All figures, tables, graphs, charts, dashboards, and screenshots shall be accurate, relevant, and properly numbered.

14. The Project Guide shall review the project periodically and sign the Log Sheet during every review.
15. Project reports shall be signed by the Guide only after verifying compliance with all prescribed guidelines.
16. Two copies of the project report shall be prepared: One copy shall be retained by the Department/College. One copy shall be retained by the student.
17. Every student shall present the project demonstration and appear for the Viva Voce examination.

ORDER OF PREFIX PAGES IN THE CAPSTONE PROJECT REPORT
(Without Page Numbers)

1) Cover Page
2) Inner Cover Page
3) Evaluation Summary
4) Certificate from the Company (If Applicable)
5) Certificate of the College
6) Certificate from the Guide
7) Declaration By the Student
8) Acknowledgement

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 6.1
Name of the Course: Portfolio and Wealth Management and Financial Risk modeling

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Lab Sessions , Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to:

a) Efficiently navigate the Power BI interface and utilize its core functionalities.
b) Import, clean, and transform financial data in Power BI.
c) Design various types of financial visualizations (charts, graphs, maps).
d) Build interactive and real-time dashboards for financial analysis.
e) Analyze and interpret financial data to provide actionable insights.
f) Integrate and automate data workflows using Power BI.

Syllabus	Hours
Unit 1- Introduction to Power BI and Financial Data	**10**
Importance of Data Visualization in Finance, Introduction to Power BI, Basic Concepts and Terminology, Types of Financial Data Visualizations, Best Practices in Financial Data Visualization, Ethical Considerations in Financial Data Visualization, Future Trends in Financial Data Visualization, Data Sources and Quality in Finance, Regulatory Compliance and Reporting Standards, Visualization Tools and Software Landscape, Visualization Case Studies in Finance, Interactive Dashboards and User Experience Design.	
Unit 2- Data Preparation and Transformation	**14**
Data Importing and Connection, Data Cleaning and Quality Assurance, Data Transformation Techniques, Creating Calculated Columns and Measures, Data Modeling and Relationships, Advanced Data Transformations, Data Refresh and Scheduled Updates, Data Security and Privacy, Optimization and Performance Tuning, Integration with External Data Services.	
Unit 3- Financial Data Visualization	**14**
Understanding Financial Metrics and KPIs, Selection of Appropriate Visualizations for Financial Data, Interactive Financial Dashboards Design, Time-Series Analysis and Forecasting, Comparative Analysis and Benchmarking, Financial Ratio Analysis, Scenario Analysis and Sensitivity Modeling, Risk Management Visualization, Geospatial Visualization of Financial Data, Custom Visualization Development for Financial Analysis.	
Unit 4- Building Interactive Financial Dashboards	**06**
Selection of Key Financial Metrics, Dashboard Layout and Design Principles, Incorporating Interactive Features (e.g., Slicers, Filters), Implementing Drill-down Functionality, Utilizing Bookmarks and Buttons for Navigation, Integration of Advanced Visualizations, Dynamic Filtering and Cross-highlighting, Data Refresh and Scheduled Updates, Implementing User Security and Access Controls, Mobile Optimization and Responsive Design.	
Unit 5- Advanced Features and Integration	**12**

Custom Visualizations Development, Integration with External Data Sources, Data Modeling and Relationships, Advanced DAX Formulas, Power Query M Language for Complex Transformations, Advanced Data Visualization Techniques, AI and Machine Learning Integration, Real-time Data Streaming and Analysis, Custom Scripting with R and Python, Integration with Azure Services.
Skill Development Activities: 1. Prepare a chart showing rates of depreciation for different assets. 2. Write any 5 Items to be excluded and included in Customs Value each. 3. Narrate the procedure for calculation of Book Profit. 4. Prepare a chart showing rates of TDS for any 6 different incomes
Books for Reference: 1. "Pro Power BI Desktop" by Adam Aspin 2. "Financial Modeling in Power BI" by Daniil Kleyman 3. "Analyzing Data with Power BI and Power Pivot for Excel" by Alberto Ferrari and Marco Russo **Resource Links:** 4. https://docs.microsoft.com/en-us/power-bi/ 5. https://www.coursera.org/ 6. https://www.edx.org/ 7. https://www.youtube.com/user/guyinacube

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 6.2
Name of the Course: CFD Markets and Blockchain Technology

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom Lecture, Lab Sessions , Tutorials, Group discussion, Seminar, Case Studies, Field Work etc.

Course Outcomes: On successful completion of the course, the students will be able to:

a) Describe the structure, functioning, and advantages of CFD markets.
b) Understand and explain blockchain technology, including cryptocurrencies and smart contracts.
c) Implement blockchain solutions in CFD trading and understand their impact on market dynamics.
d) Assess and manage risks associated with CFD trading and blockchain technology.
e) Understand and navigate the regulatory landscape affecting CFD markets and blockchain technology.
f) Create and back test trading strategies using blockchain technology in CFD markets.

Syllabus	Hours
Unit 1- Introduction to CFD Markets	**10**
Understanding CFDs (Contracts for Difference), Benefits and Risks of CFD Trading, CFD Market Participants, Popular CFD Trading Instruments, CFD Trading Strategies, Regulatory Environment and Compliance, Market Analysis and Trading Platforms, Case Studies and Practical Examples, CFD Market Liquidity and Volatility, Tax Implications of CFD Trading, Trading Psychology in CFD Markets.	
Unit 2- Fundamentals of Blockchain Technology	**14**
Introduction to Blockchain Technology, Basics of Cryptography, Decentralization and Distributed Ledger Technology (DLT), Consensus Mechanisms, Blockchain Networks: Public, Private, and Consortium, Smart Contracts and Decentralized Applications (DApps), Use Cases and Applications of Blockchain, Scalability and Performance Challenges, Security and Privacy in Blockchain, Regulation and Compliance in Blockchain Ecosystem, Future Trends and Developments in Blockchain Technology.	
Unit 3- Blockchain Applications in Finance	**12**
Cross-Border Payments and Remittances, Digital Identity Verification and KYC (Know Your Customer), Trade Finance and Supply Chain Management, Tokenization of Assets, Smart Contracts in Financial Transactions, Decentralized Finance (DeFi) Applications, Regulatory Compliance and Reporting on Blockchain, Blockchain-Based Lending and Borrowing Platforms, Transparency and Auditability in Financial Transactions, Settlement and Clearing Systems Powered by Blockchain, Risk Management and Fraud Prevention in Finance.	
Unit 4- Risk Management in CFD Trading and Blockchain	**08**
Risk Assessment and Identification, Position Sizing and Leverage Management, Stop-Loss Orders and Risk Mitigation Strategies, Market Volatility Analysis, Counterparty Risk in CFD	

Trading, Liquidity Risk Management, Regulatory Risks in CFD Trading and Blockchain, Smart Contract Risks and Vulnerabilities, Cybersecurity Risks in Blockchain, Operational Risks in CFD Trading and Blockchain, Compliance and Legal Risks in CFD Trading and Blockchain.

Unit 5- Regulatory and Ethical Considerations	**12**

Compliance with Legal Frameworks, Regulatory Compliance Standards, Ethical Guidelines and Codes of Conduct, Data Privacy Regulations, Consumer Protection Laws, Anti-Money Laundering (AML) Regulations, Know Your Customer (KYC) Requirements, Intellectual Property Rights Protection, Fair Trading Practices, Transparency and Disclosure Requirements.

Books for Reference:

1."Mastering Blockchain: Unlocking the Power of Cryptocurrencies, Smart Contracts, and Decentralized Applications" by Imran Bashir

2. "CFDs Made Simple: A Straightforward Guide to Contracts for Difference" by Jeff Cartridge

3. "Blockchain Revolution: How the Technology Behind Bitcoin and Other Cryptocurrencies is Changing the World" by Don Tapscott and Alex Tapscott

Resource Links:

1. https://docs.microsoft.com/en-us/power-bi/
2. https://www.coursera.org/
3. https://www.edx.org/
4. https://www.youtube.com/user/guyinacube

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 6.3
Name of the Course: INCOME TAX LAW & PRACTICE -II

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom lectures, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the students will be able to

a) Understand the procedure for computation of income from business and other Profession.
b) Understand the provisions for computation of capital gains.
c) Learn to compute the taxable income from other sources.
d) Learn the computation of total income of an Individual.
e) Understand the provisions relating to Set Off and Carry Forward of Losses

Note :

- **The provisions of the Income-tax Act, 1961 shall be applicable only for the Academic Year 2026–27.**
- **The provisions of the Income-tax Act, 2025, which came into effect from 1 April 2026, shall be applicable from the Academic Year 2027–28 onwards.**

SYLLABUS:	HOURS
Unit. 1: Profits and Gains from Business or Profession	**16**
Introduction-Meaning and definition of Business, Profession and Vocation. - Expenses Expressly allowed - Expenses Expressly Disallowed - Allowable losses - Expressly disallowed expenses and losses, Expenses allowed on payment basis. Problems on computation of income from business of a sole trading concern - Problems on computation of income from profession: Medical Practitioner - Advocate and Chartered Accountants.	
Unit. 2: Capital Gains	**12**
Introduction - Basis for charge - Capital Assets - Types of capital assets – Transfer - Computation of capital gains – Short term capital gain and Long term capital gain - Exemptions under section 54, 54B, 54EC, 54D and 54F. Problems covering the above sections.	
Unit. 3: Income from other Sources	**10**
Introduction - Incomes taxable under Head income other sources – Securities - Types of Securities - Rules for Grossing up. Ex-interest and cum-interest securities. Bond Washing Transactions - Computation of Income from other Sources.	
Unit. 4: Set Off and Carry Forward of Losses and Deductions from Gross Total Income.	**10**
Meaning- Provisions of Set off and Carry Forward of Losses (Theory only) Deductions under Sections 80C, 80CCC, 80CCD, 80CCG, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80TTA, 80 TTB and 80U as applicable to Individuals.	
Unit- 5: Computation of Total Income and Tax Liability	**08**
Computation of Total Income and tax liability of an Individual assessee under Old Regime.	

Skill Development activities:

1. Mention the procedure involved in the computation o income from profession.
2. List out the steps involved in the computation of income tax from other sources and critically examine the same.
3. List any 6 deductions available under section 80
4. Prepare a format for computation of taxable income and tax liability of an individual assessee

Books for Reference:

1. Mehrotra H.C and T.S.Goyal, Direct taxes, Sahithya Bhavan Publication, Agra.
2. Vinod K.Singhania, Direct Taxes, Taxman Publication Private Ltd, New Delhi
3. Gaur and Narang, Law and practice of Income Tax, Kalyani Publication, Ludhiana.
4. Bhagawathi Prasad, Direct Taxes

NOTE: This syllabus is subject to changes as per the amendments made in Income Tax Act annually.

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 6.4
Name of the Course: INDIAN ACCOUNTING STANDARDS

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom lectures, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the students will be able to
a) Understand the need and benefits of accounting standards.
b) Prepare the financial statements as Indian Accounting standards.
c) Comprehend the requirements of Indian Accounting Standards for recognition, measurement and disclosures of certain items appear in financial statements
d) Understand the Accounting Standards for Items that do not Appear in Financial Statements
e) Understand the preparation of calculation of NCI & Cost of control

SYLLABUS:	HOURS
Unit. 1: Introduction to Indian Accounting Standards and IFRS	**10**
Introduction- Meaning and Definition of Accounting Standards – Need & Objectives of Accounting Standards – Benefits and Limitations of Accounting Standards – Process of Formulation of Accounting Standards in India – List of Indian Accounting Standards (Ind AS) – Applicability of Ind AS in India. Need for Convergence Towards Global Standards– International Financial Reporting Standards - Features and Merits and Demerits of IFRS – Benefits of Convergence with IFRS.	
Unit. 2: Provisions under Accounting Standards for Items Appearing in Financial Statements.	**12**
Revenue from contracts with customers (Ind AS- 115) - Property, Plant and Equipment, including Depreciation (Ind AS- 16) –Borrowing Cost (Ind AS – 23) - Impairment of assets (Ind AS-36) – Objectives, Scope, definitions, Recognition, Measurement and disclosures of the above-mentioned Standards. Simple problems on the above standards.	
Unit. 3: Preparation of Financial Statements as per Ind AS.	**12**
Frame work for preparation of Financial Statements, presentation of Financial Statement as per Ind AS 1: Statement of Profit and Loss, Statement of Financial Position (Balance Sheet), (In detail) - Statement of changes in Equity, Statement of Cash flow and Notes to accounts. (Meaning only) Problems on preparation of Statement of Profit and Loss and Statement of Financial Position (Balance Sheet), as per Schedule III of Companies Act, 2013. (MCA – Format)	
Unit. 4: Provisions under Accounting Standards for Items that do not Appear in Financial Statements.	**10**
Segment Reporting (Ind AS 108), Related Party Discloser (Ind AS 24), Events Occurring after Balance Sheet Date (Ind AS 10), Interim Financial Reporting (Ind AS 34). (Theory Only)	
Unit. 5: Consolidated & Separate Financial Statements of Group Entities	**12**

Meaning and Definition of Group, Holding and Subsidiary Company, purpose and benefits of Preparing consolidated Financial Statements, Requirements of Companies Act,2013 in respect of consolidated Financial Statements, Components of consolidated Financial Statements; Problems on Calculation of Goodwill or Capital Reserve on Consolidation, Calculation of Minority Interest or Non-controlling Interest; Accounting treatment for inter-company debts, unrealized profit on stock and unrealized profit on fixed assets and intercompany dividends (Concepts only).

Skill Development Activities:

1. List out any Indian Accounting Standards (Ind AS).
2. Prepare with imaginary figures Statement of P/L or Statement of Financial position
3. Prepare with imaginary figures Statement of Other Comprehensive Income.
4. Prepare with imaginary figures Statement of Cash flow

Books for Reference:

1. Miriyala, Ravikanth, Indian Accounting Standards Made Easy, Commercial Law Publishers
2. Dr.A.L. Saini IFRS for India,Snow white publications.
3. C A Shibarama Tripathy Roadmap to IFRS and Indian Accounting Standards
4. Ghosh T P, IFRS for Finance Executives Taxman Allied Services Private Limited.

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 6.5
Name of the Course: MANAGEMENT ACCOUNTING

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS

Pedagogy: Classroom lectures, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the students will be able to

a) Demonstrate the significance of management accounting in decision making.
b) Analyze and interpret the corporate financial statements by using various techniques.
c) Compare the financial performance of corporate through ratio analysis.
d) Understand the latest provisions in preparing cash flow statement.
e) Understand the concepts of Budgetary Control.

SYLLABUS:	HOURS
Unit.1:Introduction to Management Accounting	**10**
Meaning and Definition, Objectives, Nature and Scope; Role of Management Accountant; Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting - Advantages and Limitations of Management Accounting. Management Reporting– Principles of Good Reporting System.	
Unit.2:Analysis of Financial Statements	**12**
Analysis of Financial Statements: Meaning and Importance of Financial Statement Analysis; Methods of Financial Analysis – Problems on Comparative Statement analysis, Common Size Statement analysis, Trend Analysis and Du-pont Analysis.	
Unit.3: Ratio Analysis	**10**
Meaning and Definition of Ratios and Ratio Analysis – Uses and Limitations of ratios – Classification of Ratios - Liquidity ratios, Solvency ratios, Turnover ratio and Profitability ratios; Problems on calculation of ratios and construction of Balance Sheet using the ratios.	
Unit.4: Cash flow Analysis	**12**
Meaning and Definition of Cash Flow Statement, Concept of Cash and Cash Equivalents, Uses of Cash Flow Statement – Limitations of Cash Flow Statement– Provisions of Ind. AS-7. Procedure for preparation of Cash Flow Statement – Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to Ind. AS-7.	
Unit.5: Budgetary Control	**12**
Introduction – Meaning & Definition of Budget and Budgetary Control, Objectives of Budgetary Control, Essential requirements of budgetary control, Advantages and disadvantages of budgetary control; Types of budgets- Functional Budgets, Cash budget, sales budget, purchase budget and production budget, Fixed and Flexible budgets - Problems on Flexible budget (Total cost budget only) and Cash budgets.	

Skill Development Activities:

1. Prepare with imaginary figures a Cash budget.
2. Prepare with imaginary figures comparative statement and analyze the financial position.
3. Prepare with imaginary figures cash flow statement
4. Prepare a Trend analysis statement for three years with imaginary figures.

Books for Reference:

1. Charles T. Horngren, Gary L. Sundem, Dave Burgstahler, Jeff O.Schatzberg, Introduction to Management Accounting, Pearson Education.
2. Khan, M.Y. and Jain, P.K. Management Accounting. McGraw Hill Education.
3. Arora, M. N. Management Accounting, Vikas Publishing House, New Delhi
4. Maheshwari, S.N. and S.N. Mittal, Management Accounting. Shree Mahavir Book Depot, New Delhi.

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 6.6
Name of the Course: CAREER SKILLS

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
2 CREDITS	2 HOURS	30 HOURS

Pedagogy: Classroom lectures, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the students will be able to

a) Understand basics of banking, finance, accounting, and management.
b) Apply accounting and financial concepts to practical problems.
c) Explain the Indian financial system and regulatory bodies.
d) Understand monetary and fiscal policies and their economic impact.
e) Develop awareness of financial markets, CSR, and welfare schemes.

SYLLABUS:	HOURS
Unit.1: Banking, Finance, Accounting and Management	**10**

Banking system in India – meaning, functions of commercial banks, and overview of modern banking services (digital banking, e-banking and merchant banking).
Basics of Finance – Principles of finance, types of financial decisions, sources of business finance, and capital structure (under and over capitalization), Different types of financing in modern finance for business and industries.
Fundamentals of accounting – golden rules of accounting, journal entries, subsidiary books, and error identification and rectification.
Basics of capital market instruments – IPO process, shares, debentures, and terms of issue - Terms of Consolidation of accounts- Special Accounts
Introduction to management – meaning, principles, functions of management, leadership styles, and Management by Exception (MBE).

Unit.2: Regulatory Framework, Monetary and Fiscal Policy	**10**

Overview of financial regulatory bodies in India – functions of Reserve Bank of India, Securities and Exchange Board of India, Insurance Regulatory and Development Authority of India, Pension Fund Regulatory and Development Authority, and other financial regulators.
Role and structure of RBI – functions, credit control measures, and currency/ note issuing system.
Monetary policy – meaning, objectives, instruments, and impact on inflation and economic growth.
Fiscal policy – meaning, objectives, tools (taxation, public expenditure), and role in economic development.
Basic understanding of interaction between monetary and fiscal policies in economic stability, Effect of these policies.

Unit.3: Welfare Schemes, CSR and Financial Markets	**10**

Concept of social welfare schemes and their role in economic development.
Major Government of India schemes – health, social security, financial inclusion, livelihood support, basic amenities, women and child development.
Key welfare schemes of Karnataka (state-level important welfare schemes for exams).

Corporate Social Responsibility (CSR) – meaning, objectives, functions, and funding mechanisms.
Introduction to financial markets – structure and types of stock markets and commodity markets in India.

Books for Reference:

1. Principles and Practice of Banking – Macmillan Publications.
2. Indian Financial System – Tata McGraw Hill Education.
3. Financial Management – Pearson Education.
4. Financial Management: Theory and Practice – McGraw Hill Education.
5. Advanced Accountancy – Kalyani Publishers.
6. Financial Accounting – Margham Publications.
7. Principles of Management – Tata McGraw Hill.
8. Management Principles and Applications – Kalyani Publishers.
9. Indian Economy – McGraw Hill Education.
10. Business Environment – Himalaya Publishing House.
11. Corporate Social Responsibility – Ventus Publishing.
12. Security Analysis and Portfolio Management – S. Chand Publishing.
13. Publications and annual reports of Reserve Bank of India, Securities and Exchange Board of India, and Insurance Regulatory and Development Authority of India for updated regulatory and policy

Name of the Program: BACHELOR OF COMMERCE (FINTECH)
Course Code: 6.7
Name of the Course: INTERNSHIP

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
3 CREDITS	2 HOURS	30 HOURS

CONTENTS OF THE INTERNSHIP REPORT

CHAPTER-1: INDUSTRY PROFILE

This chapter presents the theoretical background of the industry on which the study is conducted by presenting the emerging domestic and international dimensions of the industry.

CHAPTER-2: PROFILE OF THE ORGANISATION

This chapter presents a comprehensive profile of the organization where the internship is undertaken. It includes the history and growth of the organization, vision, mission, objectives, organizational structure, products and services offered, departmental setup, market position, and major achievements. The chapter provides an overview of the organization's business environment and highlights its role within the industry.

CHAPTER-3: FUNCTIONS/OPERATIONS OF THE ORGANISATION

This chapter explains the various functions and operational activities carried out by the organization. It covers the roles and responsibilities of different departments, organizational processes, management functions, workflow systems, and operational procedures. The chapter also describes the activities observed during the internship, the practical exposure gained, and the contribution of different functional areas towards achieving organizational objectives.

CHAPTER-4: LEARNING OUTCOMES, SUGGESTIONS AND CONCLUSION

This chapter summarises each of the student’s learning outcomes presented point. Specific suggestions provided to the organisation during the course of the internship maybe presented in this chapter, however suggestions should be realistic based on the student’s observation and practical experience. At least a few should have been implemented by the organisation or considered for implementation. The concluding remarks may also be included in this chapter.

ANNEXURES:

The copy of the useful documented material collected from the organization may be annexed.

REFERENCES:

The references made from books, journals, newspapers, magazines, company records, annual reports and statements etc. maybe be listed under references.

LOG SHEETS: Duly signed should be attached after references

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