

(Applicable to the batch of students admitted in the academic year 2026-2027)

B.Com.(Computer Applications) (CBCS)

FACULTY OF COMMERCE, IIMC


**B.Com.(Computer Applications)
I & II Semester Syllabus (CBCS)
(w.e.f. 2026-27)**




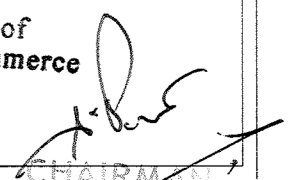
**FACULTY OF COMMERCE
INDIAN INSTITUTE OF
MANAGEMENT & COMMERCE
Autonomous College (UG & PG)**

6-1-91, Khairatabad, Hyd- 500 004, T.S


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B.COM (Computer Applications)
CBCS COURSE STRUCTURE
w.e.f. 2026-2027

SL.No.	Code	Course Title	HPW	Credits	Exam Hrs	Marks
(1)	(2)	(3)	(5)	(6)	(7)	(8)
SEMESTER - I						
1.	AEC1	English (First Language)	5	5	3 hrs	70+30I
2.	SLS1	Second Language	5	5	3 hrs	70+30I
3.	MJR101	Financial Accounting-I	5	5	3 hrs	70+30I
4.	MJR102	Business Organization and Management	5	5	3 hrs	70+30I
5.	MJR103	Fundamentals of Information Technology	3T+4P (5)	5	2 hrs	50T+35P + 15I
6.	Non-CGPA Course	Basics of Artificial Intelligence				50
Total			25	25		
SEMESTER - II						
1.	AEC2	English (First Language)	5	5	3 hrs	70+30I
2.	SLS2	Second Language	5	5	3 hrs	70+30I
3.	MJR201	Financial Accounting-II	5	5	3 hrs	70+30I
4.	MJR202	Business Laws	5	5	3 hrs	70+30I
5.	MJR203	Programming with C & C++	3T+4P (5)	5	2 hrs	50T+35P + 15I
Total			25	25		


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SEMESTER-1

Paper MJR 101: FINANCIAL ACCOUNTING - I

PAPER CODE: MJR 101:
THPW: 5; Credits: 5

Total Marks: 70U+301-100
ESED: 3 HRS

Objective: To acquire conceptual knowledge of basics of accounting and preparation of final accounts of sole trader.

Course Objectives:

1. To understand the accounting process.
2. To classify and record various business transactions in the respective subsidiary books.
3. To know the reasons for disagreement of cash book and bank passbook balances.
4. To identify and rectify the accounting errors at various stages of accounting cycle.
5. To prepare the final accounts of the sole trader.

Course Outcomes:

1. Describe and understand the accounting principles and recording of business transactions in Journal.
2. Prepare ledgers and subsidiary books.
3. Prepare and analyse the bank reconciliation statement.
4. Understand the way of rectification of errors in the books of accounts.
5. Understand the needs of preparing financial statements with adjustments.

UNIT-I: ACCOUNTING PROCESS

Financial Accounting: Introduction - Definition - Evolution - Functions - Advantages and Limitations - Users of Accounting Information Branches of Accounting - Accounting Principles: Concepts and Conventions - Accounting Standards - Meaning - Importance - List of Accounting standards issued by ASB - Accounting System - Types of Accounts - Accounting Cycle - Journal - Ledger and Trial Balance. (Including Problems)

UNIT-II: SUBSIDIARY BOOKS AND RECTIFICATION OF ERRORS

Meaning - Types: Purchases Book - Purchases Returns Book - Sales Book - Sales Returns Book - Bills Receivable Book - Bills Payable Book - Cash Book: Single Column, Two Column, Three Column and Petty Cash Book - Journal Proper (Including Problems)

Rectification of Errors: Types of Errors - Suspense Account - Effect of Errors on Profit (Including Problems)

UNIT-III: BANK RECONCILIATION STATEMENT

Meaning - Need Reasons for differences between Cash Book and Passbook balances - Favourable and Overdraft balances - Ascertainment of correct Cash Book balance (Amended Cash Book) - Preparation of Bank Reconciliation Statement (Including Problems)

UNIT-IV: DEPRECIATION ACCOUNTING

Depreciation (Ind-AS-16): Meaning - Causes - Difference between Depreciation, Amortization and Depletion - Objectives of providing for depreciation - Factors affecting depreciation - Accounting Treatment - Methods of Depreciation: Straight Line Method - Diminishing Balance Method and Sum of the Units Method (Including Problems)


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UNIT-V: FINAL ACCOUNTS OF SOLE TRADER


Capital and Revenue Expenditure - Capital and Revenue Receipts: Meaning and Differences - Deferred Revenue Expenditure. Final Accounts of Sole Trader: Meaning - Uses - Preparation of Manufacturing, Trading and Profit & Loss Account and Balance Sheet - Adjustments - Closing Entries. (Including problems)

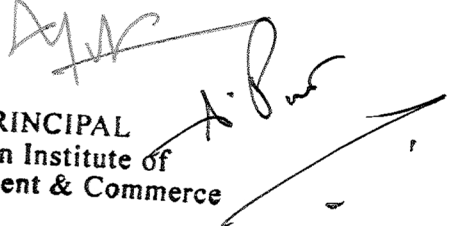
An overview of Computerised Accounting. (Theory only)


SUGGESTED READINGS:

1. Haneef and Mukherjee: Accountancy-I: Tata McGraw Hill Company.
2. R. L. Gupta & V. K. Gupta: Principles & Practice of Accounting: Sultan Chand.
3. S. P. Jain & K. L. Narang: Accountancy-I: Kalyani Publishers.
4. Tulasian: Accountancy-I: Tata McGraw Hill Company.
5. T. S. Grewal: Introduction to Accountancy: S. Chand and Company.
6. Prof. Prashanta Athma: Financial Accounting -I: Himalaya Publishing House Pvt Ltd.
7. S. N. Maheshwari & V. L. Maheshwari: Advanced Accountancy-I: Vikas House. Publishing
8. Deepak Sehgal: Fundamentals of Financial Accounting: Tax Mann Publication.
9. Jawahar Lal: Financial Accounting: Himalaya Publishing House.
10. Kamatam Srinivas: Financial Accounting -I: S Publishers.
11. Kamala Devi, Dr Padmalatha, Rachana Sharma: Financial Accounting-I: Professional Books Publisher.
12. Dr. K. Naveen Kumar: Financial Accounting -I: Vedashree Publishers.


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SEMESTER-1

Paper MJR 102: BUSINESS ORGANIZATION AND MANAGEMENT

PAPER CODE: MJR 102:

Total Marks: 70U+301-100

THPW: 5; Credits: 5

ESED: 3 HRS

Objective: To acquaint the students with the basics of Commerce and Business concepts and functions, forms of Business Organization and functions of Management.

Course Objectives:

1. To know the forms of business organization.
2. To understand the meaning and classification of joint stock companies.
3. To know the meaning and functions of management.
4. To study the importance of planning and organizing in a business organization.
5. To differentiate the concepts of authority, power, accountability, responsibility, delegation and decentralization.

Course Outcomes:

1. Describe and understand the forms of business organization.
2. Knows the forms of companies and important documents.
3. Equips with the application of Fayol's 14 principles of management.
4. Understand the benefits of planning and organizing in an organization.
5. Gain confidence in proper use of authority, responsibility, centralization, decentralization, coordination, and cooperation and control terms.

UNIT-I: Introduction

Concepts of Business, Trade, Industry and Commerce - Objectives and functions of Business Social Responsibility of a Business – Forms of Business Organization - Meaning, Characteristics, Advantages and Disadvantages of Sole Proprietorship - Meaning, Characteristics, Advantages and Disadvantages of Partnership - Kinds of Partners - Partnership Deed -Concept of Limited liability partnership – Meaning, , Characteristics, Advantages and Disadvantages of Hindu Undivided Family - Meaning, Advantages and Disadvantages of Co-Operative Organization.(incl. Case studies)

UNIT-II: Joint Stock Company

Joint Stock Company - Meaning - Definition - Characteristics - Advantages and Disadvantages - Kinds of Companies - Promotion - Stages of Promotion - Promoter - Characteristics - Kinds - Preparation of Important Documents Memorandum of Association Clauses Articles of Association - Contents - Prospectus - Contents - Red herring Prospectus- Statement in lieu of Prospectus (As per Companies Act-2013) .(incl. Case studies)

UNIT-III: Functions of Management

Management - Meaning - Characteristics - Functions of Management - Levels of Management- Skills of Management - Scientific Management - Meaning Definition - Objectives - Criticism - Fayol's Principles of Management. (incl. Case studies)

UNIT-IV Planning and Organising

Meaning - Definition - Characteristics - Types of Plans - Management by Objectives (MBO) Definition of Organizing-Organization-Process of Organizing - Principles of Organization - Organization Structure - Types of Organization Structure-Span of Control .(incl. Case studies)

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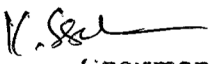
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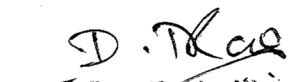
UNIT-V Authority and Control:


Meaning of Authority, Power, Responsibility and Accountability - Delegation of Authority - Decentralization of Authority Control - Meaning - Definition - Relationship between Planning and Control - Steps in Control - Requirements for Effective Control. (incl. Case studies)


SUGGESTED READINGS:

1. RK Sharma & Shashi K. Gupta: Business Organization & Management: Kalyani Publishers
2. Patrick Anthony: Business Organization & Management: Himalaya Publishing House
3. Dr. Manish Gupta, Business Organization & Management: PBP.
4. R. D. Agarwal: Organization & Management: McGraw Hill.
5. S.A. Sherlekar, V.S. Sherlekar: Modern Business Organization: Himalaya Publishing House
6. C.R. Basu: Business Organization & Management: Tata McGraw Hill
7. M.C. Shukla: Business Organization & Management: S. Chand
8. D.S. Vittal: Business Organization and Management: S. Chand
9. V.S.P. Rao: Organizational Behavior Text & Cases: Himalaya Publishing House
10. Uma Shekaram: Business Organization & Management: Tata McGraw Hill
11. Dr. R. Sushama, Mrs. R. Renuka: Business Organisation and Management: Vedashree Publishers. 12) Dr. R. Sridhar : Business Organisation and Management: S Publishers.
12. Sherlekar & Khuspat Jain: Business Organization & Management: Himalaya Publishing House
13. RK Chopra: Office Organization & Management: Himalaya Publishing House
14. RS Gupta & BD Sharma: Principles and Practice of Management: Kalyani Publishers


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SEMESTER-1

Paper MJR 103: FUNDAMENTALS OF INFORMATION TECHNOLOGY

PAPER CODE: MJR 103:
THPW: 5; Credits: 5

Total Marks: 50(T)+20(P)+30(I)
ESED: 3 HRS

Objective: To understand the basic concepts and terminology of information technology and to identify issues related to information security.

Course Objectives:

1. To introduce students to understand foundational IT Concepts
2. To develop understanding of data storage and all the hardware components.
3. To provide foundational knowledge of system and application software's (word processing, spread sheet and presentation).
4. To explain the role and functions of operating systems and system utilities.
5. To impart knowledge on data communication, networking concepts, and related hardware.

Course Outcomes:

1. Identify and describe components and functions of a computer system and different data storage methods.
2. Distinguish between system software and application software with examples.
3. Understand operating system functions and classify processing techniques.
4. Mastering in application softwares like word, Excel and power point.
5. Explain data communication concepts and recognize basic networking devices and topologies.

UNIT-I: FOUNDATION OF COMPUTING, BUSINESS & DATA STORAGE

Introduction to Digital Transformation in Business **Strategic Role of IT in Functional Areas** (Finance, Marketing, HR, SCM) - **Components of a Computer System:** Hardware (CPU, RAM/ROM), Software (System & Application) - **Input/output Devices:** From keyboards & printers to biometric & IoT devices - Bits, Bytes & Data Representation - Ethical & Social Aspects - **Emerging Technologies Overview:** AI, ML, IoT, Block chain, RPA (conceptual)


UNIT-II: DATA, STORAGE & LOGICAL FOUNDATIONS


Number System(Binary, Octal, Decimal & Hexa) - **Types of Storage:** RAM, ROM, SSD, HDD, Flash Drives - **Cloud vs. Local Storage:** Applications in Business - **File Systems & Organization:** Files, folders, extensions - Conceptual Database Overview: Tables, Fields, Records - Organizing Business Data: Numeric/Text/Date, basic tabular format - Role of Data in Business Decision-Making


UNIT-III: SOFTWARE APPLICATIONS FOR BUSINESS

Operating Systems: Functions, types (Windows, Linux, MacOS, Android, iOS) - **Utility Software:** Antivirus, Backup, File compression, System clean-up tools **Word Processing:** Formatting, tables, mail merge, collaborative editing - **Spreadsheets:** Formulas (SUM, AVERAGE, IF, VLOOKUP), data charts, validation, pivot tables. **Presentations:** Design, transitions, multimedia integration - **Enterprise Software:** ERP (basic modules and benefits), (a) CRM: Customer interaction management, (b) DBMS: Use cases in business operations .


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UNIT-IV: NETWORKING & INTERNET IN BUSINESS

Basics of Networking: LAN, WAN, WLAN, Internet - **Network Topologies** (Star, Bus, Ring, Mesh - conceptual) - **Devices:** Routers, Switches, Modems (roles and applications) - Client-Server Architecture - **Internet Fundamentals:** IP, DNS, URLs, Browsers, Search Engines - ECommerce Basics: Models and relevance - Social Media in Business - **Data Communication:** Wired (Ethernet, Fiber), Wireless (Wi-Fi, Bluetooth) - Bandwidth & Speed Concepts (bps, Mbps, Gbps).

UNIT-V: CLOUD COMPUTING & CYBERSECURITY

Cloud Computing: Concepts, characteristics, advantages - **Service Models:** SaaS, PaaS, IaaS **Deployment Models:** Public, Private, Hybrid - **Cyber security Essentials:** Types of threats: Malware, Phishing, DOS attacks - Protective Measures: Strong passwords, MFA, antivirus, firewalls - Data Backup and Recovery - Safe Browsing Practices - Introduction to Cyber Laws & Data Privacy Regulations (GDPR, India's DPDPA).


Practical Component (2 Hours per Week)


Hands-on sessions aligned with each unit:


- Microsoft Office / Google Workspace:
- Advanced Word, Excel, and PowerPoint features o Mail merge, Data sorting, Pivot tables, Charts
- Internet Browsing & Research Skills
- Cloud Tools: Google Drive, OneDrive collaboration


SUGGESTED READINGS:

1. Fundamentals of Information Technology: M.Vijay & Tulasi Ram Kandula: Himalaya Publishing House
2. Fundamentals of Information Technology: Puneet Kumar & S. Bhardwaj, Kalyani Publishers.
3. Computer Fundamentals: P.K.Sinha
4. Fundamentals of Informantion Technology: Dr.Jayalaxmi and others: Professional Books Publisher
5. Fundamentals of Information Technology: Mrs. R. Renuka: Vedashree Publishers
6. Fundamentals of Computers: C.S V Murthy: Himalaya Publishing House.


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Semester-I

Non-CGPA Course: Basics of Artificial Intelligence

No. of Hours: 40 hrs

Max. Marks: 50

Unit-I: Introduction to Artificial Intelligence

Definition of Artificial Intelligence - Evolution of AI - Components of AI Systems - AI vs Human Intelligence – AI vs Traditional Computer Programming – AI Technologies – Introduction to Expert Systems- AI in Daily Life (Google Maps, Alexa, Chatbots, Recommendation Systems) - Benefits and Limitations of AI - Impact of AI on Business Growth.


Unit-II: AI Applications and Tools


Introduction to AI Tools (ChatGPT, Google AI tools, AI in MS Excel & Business Analytics) - Basics of Prompt Writing - AI for Report Writing and Presentations - AI Ethics and Responsible AI - Data Privacy and Security Issues - Bias and Fairness in AI - Legal Issues of AI in Business - Future Careers in AI.

Suggested Readings:

1. AI for Everyone - Andrew Ng - 1st Edition (2022) - Landing AI
2. Artificial Intelligence: Foundations of Computational Agents - David Poole and Alan Mackworth - 3rd Edition (2023) - Cambridge University Pres


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SEMESTER-II

Paper MJR 201: FINANCIAL ACCOUNTING - II

PAPER CODE: MJR 201:

THPW: 5; Credits: 5

Total Marks: 70U+301-100

ESED: 3 HRS

Objective: To acquire accounting knowledge of Consignment accounts and other business accounting methods.

Course Objectives:

1. Understand the concepts and accounting treatment for consignment accounts,
2. Learn the methods of recording and preparing joint venture accounts.
3. Develop skills in accounting for incomplete records and single-entry system
4. Familiarize with accounting for non-profit organizations.
5. Learn the accounting treatment of hire purchase, instalment purchase, and lease transactions.

Course Outcomes:

1. Prepare accounting records for consignment accounts
2. Record joint venture transactions and prepare joint venture accounts.
3. Convert incomplete records to double-entry system and prepare financial statements
4. Prepare financial statements for non-profit organizations, including receipts and payments account, income and expenditure account, and balance sheet
5. Prepare accounts under hire purchase and instalment purchase systems and explain the basics of lease accounting.

UNIT-I: CONSIGNMENT ACCOUNTS

Consignment - Meaning - Features - Proforma invoice - Account sales - Del credere commission-Accounting treatment in the books of the consignor and the consignee - Valuation of consignment stock (Focusing on proportionate non-recurring expenses) - Treatment of Normal and abnormal Loss - Invoice of goods at a price higher than the cost price (Including problems)

UNIT-II: JOINT VENTURE ACCOUNTS

Joint Venture - Meaning - Features - Difference between Joint Venture and Consignment - Accounting Procedure - Methods of Keeping Records for Joint Venture Accounts - Method of Recording in co-ventures books (When separate books are not maintained) -Separate set of Books Method - Joint Bank Account - Brief overview of Memorandum Joint Venture Account (Including problems)


UNIT-III: ACCOUNTS FROM INCOMPLETE RECORDS


Single Entry System - Meaning - Features - Difference between Single Entry and Double Entry systems - Defects in Single Entry System - Books and accounts maintained - Ascertainment of Profit - Statement of Affairs Method - Conversion method (Preparing complete trading, Profit and Loss Account and Balance Sheet (Including problems)

UNIT- IV: ACCOUNTING FOR NON- PROFIT ORGANISATIONS

Non- Profit Organization - Meaning - Features - Receipts and Payments Account - Income and Expenditure Account - Balance Sheet. Treatment of Special items like Entrance Fees, Donations, Legacy, etc, - Calculation of consumables (E.g., Stationery, Medicines) and Stock adjustments (Including problems)


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UNIT – V: HIRE PURCHASE SYSTEM, INSTALMENT PURCHASE SYSTEM AND LEASE ACCOUNTING


Hire Purchase System - Features - Accounting Treatment in the Books of Hire Purchaser and Hire Vendor -Default and Repossession – Instalment purchase System Difference between Hire purchase and Instalment purchase systems -Accounting Treatment in the books of Purchaser and Vendor (Including problems)


Lease Accounting – Features – Types (Theory Only)


SUGGESTED READINGS:

1. Accountancy-I: Haneef and Mukherjee, Tata McGraw Hill Co.
2. Principles and Practice of Accounting: R.L. Gupta & V.K. Gupta, Sultan Chand & Sons.
3. Accountancy-1: Tulasian, Tata McGraw Hill Co.
4. Financial Accounting -1: Prof. Prashanta Athma: Himalaya Publishing House Pvt Ltd.
5. Financial Accounting -II: Prof. K. Krishna Chaitanya: Kamala Devi, Kalyani Publishers-2025.
6. Financial Accounting II: S.P. Jain & K.L. Narang, Kalyani publishers. 2 Revised Edition-2017
7. Advanced Accountancy-1: S.N.Maheshwari&VI. Maheswari, Vikas.
8. Advanced Accountancy: M Shrinivas& K Sreelatha Reddy, Himalaya Publishers.
9. Financial Accounting: M.N Arora, Tax Mann Publications.
10. Financial Accounting 1: Dr. K. Naveen Kumar: Vedasthree Publishers-2024
11. Financial Accounting-11: Prof. Kamatam. Srinivas, S. Publications-2025.
12. Financial Accounting-II: Mrs. K. Archana, P. Subhashini, SV Publication. First Edition-2025
13. Financial Accounting-II: Dr Yogeshwaran, E.V. Chandramohan Sastry, Professional books Publishers. New edition-2025, Year of Publication-2018
14. Financial Accounting-II: Prof Prabhu Sahai, Mary Vinaya Sheela and Others, DI. Publishers and Distributors 2025
15. Financial Accounting-11: Dr K Naveen Kumar and Dr D Sreekam Vedashree Publishers-2025.


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SEMESTER-II

Paper MJR 202: BUSINESS LAWS

PAPER CODE: MJR 202:
THPW: 5; Credits: 5

Total Marks: 70U+301-100
ESED: 3 HRS

Objective: To understand basics of contract act, sales of goods act. IPRs and legal provisions applicable for establishment, management and winding up of companies in India.

Course Objectives:

1. Understand the fundamentals principals and application of Indian Contract Act, 1872.
2. Analyze the Key provisions of the Sale Goods Act, 1930 and the Consumer Protection Act, 2019
3. Learn about the Intellectual Property Rights, (IPRs) Protection.
4. Understand Legal aspects of Company Management and Governance under the Companies Act, 2013.
5. Study the modern process of corporate insolvency and liquidation under the insolvency and bankruptcy Code (IBC). 2016

Course Outcomes:

1. Analyze and apply contract law principles to business transactions
2. Understand consumer rights and protection under the Consumer Protection Act
3. Identify and protect intellectual property rights, including trademarks, patents, and copyrights
4. Apply company law principles to manage companies and conduct meetings
5. Understand the process of winding up and insolvency laws, including the Insolvency and Bankruptcy Code.

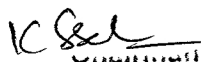
UNIT - I – Indian Contract Act, 1872

Agreement – Contract – Essentials of Valid Contract –Types of Contracts – Foundation Concepts –Basics Classification – Express Contract – Implied/Tacit Contract Quasi Contract – E-Commerce – Validity Basics Valid Contract – Void Contract – Void ab initio – Voidable Contract Unenforceable Contract – Illegal Contract Execution Basis – Executed – Executory – Bilateral – Unilateral Meaning of Offer – Acceptance Communication of Offer and Revocation of Offer and Acceptance – Capacity to Contract – Free Consent – Coercion – Undue Influence – Fraud Consideration – Its Essentials – Meaning & Discharge of Contract – Breach of Contract Remedies for Breach of Contract Meaning of Contract of Indemnity – Contract of Guarantee.

UNIT – II – Sale of Goods Act, 1930

Sale of Goods Act, 1930 and Consumer Protection Act, 2019 Contract of Sale – Sale and Agreement to Sell Goods and Types. Conditions and Warranties Express and Implied. Caveat Emptor – Exceptions Transfer of Property – Meaning and Different Circumstances Unpaid

Seller – Meaning and His Rights of Consumer Protection Act, 2019 Concept of Consumer Goods – Services – Consumer Dispute Unfair Trade Practices Central Consumer Protection Authority (CCPA) Consumer Dispute Redressal Commissions (District, State, National) Monetary and Jurisdictional Limits Some Judgements Given Under This Act Procedure to File Complaint Under This Act.



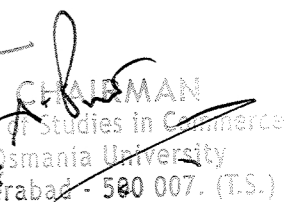
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UNIT - III – Intellectual Property Rights (IPRs)

Trademarks – Meaning – Definition – Registration Duration – Renewal – Infringement. Patents – Meaning – Definition – Inventions and Patents Existing Patentee – Transfer of Patent Rights. Copyright – Meaning – Definition – Rights of Copyright Owner Term of Copyright – Infringement Industrial Designs Act, 2000 – Meaning Trade Secrets and Geographical Indications (GI).

UNIT - IV – Management of Companies and Corporate Governance

Directors – Qualifications – Disqualifications – Appointment – Removal – Important Duties and Liabilities of Directors. Independent Directors Corporate Governance and its Main Principles Corporate Social Responsibility (CSR) – CSR Committee Financial Aspects of CSR Meetings of Companies – Different Meetings Conditions applicable to make meetings valid Important terms like Notice, Proxy, Agenda, Quorum Minutes Book Ordinary Resolutions / Special Resolutions.


UNIT - V – Corporate Insolvency and Winding Up

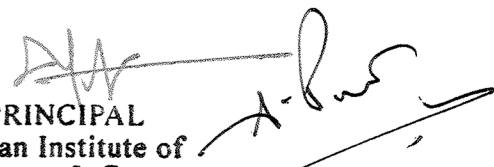
Meaning of Winding Up – Companies Act, 2013 Modes of Winding Up Winding up by Tribunal Revival of Sick/ Solvent Companies Fraud, Oppression, Removal of Name of the Company Winding up of Insolvent Companies Conditions and Procedures as per Companies Act, 2013 Bankruptcy Code, 2016 Compulsory winding up – NCLT Creditors' voluntary winding up Insolvency and Bankruptcy Code (IBC).

SUGGESTED READINGS:

1. Company Law: ND Kapoor, Sultan Chand and Co.
2. Company Law: Rajashree. - HPH
3. Business Law - Kavitha Krishna, Himalaya Publishing House
4. Business Laws-Dr. B. K. Hussain, Nagalakshmi - PBP
5. Business Law: V K Sareen, Kalyani Publishers. I" Edition-2020
6. Company Law: Prof. G. Krishna Murthy, G. Kavitha, PBP
7. Company Law and Practice: GK Kapoor & Sanjay Dhamija, Taxmann Publication.
8. Business Law-Dr. Indrakanti Sekhar & Ms. Tulja Bhavani, SIA Publishing & Distributors Pvt. Ltd.
9. Company Law: Revised as per Companies Act-2013: KC Garg et al, Kalyani Publication.
10. Corporate Law: PPS Gogna, S Chand.
11. Business Law: D.S. Vital, S Chand
12. Company Law: Bagrial AK, Vikas Publishing House.
13. Business Law: B.K. Hussain, S. Gopal Rao, Professional books Publishers, Edition-2024, Year of Publication -2020.
14. Business Laws: Madhavi AVR, D. Bhaskara Lakshmi, SV Publication. First Edition-2025
15. Business Laws: S.P. Neehalika Bavya: S. Publishers.


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SEMESTER-II

Paper MJR 203: PROGRAMMING WITH C & C++

PAPER CODE: MJR 203:

Total Marks: 50T+20P+30I =100

THPW: 3T+4P; Credits: 5 ESED: 2 HRS

Objective: To understand the fundamental concepts of programming in C and Object-Oriented Programming using C++.

Course Objectives:

1. Learn the basics of C programming language
2. Understand control statements, loops, functions, arrays, and strings in C
3. Familiarize with pointers, structures, and unions in C
4. Learn object-oriented programming concepts using C++
5. Develop problem-solving skills using C and C++ programming languages

Course Outcomes:

1. Write C programs using variables, data types, operators, control statements, loops, functions, arrays, and strings
2. Use pointers, structures, and unions to solve complex problems in C
3. Develop C++ programs using object-oriented programming concepts, including classes, objects, inheritance, polymorphism, encapsulation, and abstraction
4. Apply problem-solving skills to real-world problems using C and C++ programming languages
5. Analyze and debug C and C++ programs to ensure correctness and efficiency

UNIT-I: INTRODUCTION TO C LANGUAGE, VARIABLES, DATA TYPES AND OPERATORS

Introduction: Types of Languages- History of C language – Basic Structure –Programming Rules –Flow charts-algorithms–Commonly used library functions - Executing the C Program - Pre-processors in “C”- Keywords & Identifiers – Constants – Variables: Rules for defining variables - Scope and Life of a Variable – Data types- Type Conversion - Formatted Input and Output operations. Operators: Introduction– Arithmetic – Relational – Logical – Assignment - Conditional - Special - Bitwise - Increment / Decrement operator.

UNIT-II: WORKING WITH CONTROL STATEMENTS, LOOPS

Conditional statements: Introduction - If statements – If - else statements – nested if-else – break statement-continue statement-go to statement-Switch statements. Looping statements: Introduction- While statements – Do-while statements - For Statements-nested loop statements.

UNIT-III: FUNCTIONS, ARRAYS AND STRINGS



Functions: Definition and declaration of functions- Function proto type-return statement-types of functions-formatted and unformatted functions. Built in functions: Mathematical functions – String functions – Character functions – Date functions. **User defined functions:** Introduction – Need for user defined functions – Elements of functions – Function call – call by value and call by reference – Recursive functions. **Arrays:** Introduction – Defining an array – Initializing an array –characteristics of an array- One dimensional array – Two dimensional array – Multi dimensional array. **Strings:**Introduction – Declaring and initializing string – Reading and Writing strings – String standard functions.


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UNIT-IV: POINTERS, STRUCTURES AND UNIONS

Pointers: Features of pointers- Declaration of Pointers-arithmetic operations with pointers

Structures: Features of Structures - Declaring and initialization of Structures –Structure within Structure Array of Structures- **Enumerated data type**-Unions- Definition and advantages of Unions comparison between Structure & Unions.


UNIT-V: OBJECT ORIENTED CONCEPTS USING C++


Object Oriented Programming: Introduction to Object Oriented Programming - Structure of C++ – Simple program of C++– Storage Classes- Similarities and Differences between C & C++ - Data Members-Member Functions - Object Oriented Concepts- Class-Object-Inheritance-Polymorphism- Encapsulation-Abstraction.

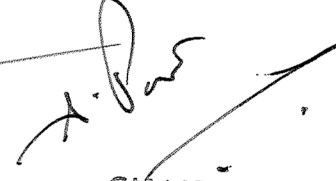
SUGGESTED READINGS:

1. Programming with C& C++ : Indrakanti Sekhar, V.V.R.Raman & V.N.Battu, Himalaya Publishers.
2. Programming with C& C++: M. Shalini, Kalyani Publishers. 1st Edition, Year of Publication -2020.
3. Programming in ANSI C: Balagurusamy, McGraw Hill.
4. Mastering C: K.R. Venugopal, McGraw Hill.
5. Let Us C: Y.Kanetkar, BPB.
6. Objected Oriented Programming with C++: E. Balagurusamy, McGraw Hill.
7. Programming with C& C++: Mrs. A Madhavi, K. Maheshwari, S.V. Publications. First Edition – 2025.
8. Programming with C++: KVR Saraswathi, S. Jayalakshmi & M. Sudha, Professional Books Publishers.
9. College Course Material


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