

**M.B.A. (E-Commerce) 5 years Integrated  
Batch 2023-2028  
Semester II**

<b>S.no.</b>	<b>Code</b>	<b>Course</b>	<b>Credit</b>
<b>1</b>	<b>MS6A-102</b>	<b>RDBMS</b>	<b>03</b>
<b>2</b>	<b>MS6A-104</b>	<b>Operating System</b>	<b>03</b>
<b>3</b>	<b>MS6A-106</b>	<b>Digital Information System</b>	<b>03</b>
<b>4</b>	<b>MS6A-108</b>	<b>Individual and Interpersonal Behavior</b>	<b>03</b>
<b>5</b>	<b>MS6A-110</b>	<b>Business Statistics</b>	<b>03</b>
<b>6</b>	<b>MS6A-112</b>	<b>English</b>	<b>03</b>
<b>Electives: select any 2 out of 4</b>			
<b>7</b>	<b>MS6A-114</b>	<b>Business Accounting</b>	<b>03</b>
<b>8</b>	<b>MS6A-116</b>	<b>Environmental Sustainability &amp; Climate Change Mitigation</b>	<b>03</b>
<b>9</b>	<b>MS6A-118</b>	<b>Corporate English</b>	<b>03</b>
<b>10</b>	<b>MS6A-120</b>	<b>Data Structure using C</b>	<b>03</b>
<b>11</b>	<b>MS6A-152</b>	<b>Comprehensive Viva Voce</b>	<b>03</b> <b>(Virtual)</b>
<b>TotalCredits: 24+3Virtual Credit</b>			

<b>M.B.A. (e-commerce)</b> <b>Batch 2023-2028</b> <b>Semester II</b>			
<b>Subject Name</b>	<b>RDBMS</b>	<b>Subject Code</b>	<b>MS6A-102</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: CORE</b>			
<b>Course Objective:</b> <ul style="list-style-type: none"> <li>• Describe a database management system and trace its historical development.</li> <li>• Understand and apply the principles of data modeling using Entity Relationship and develop a good database design.</li> <li>• Understand the use of Structured Query Language (SQL) and MS Access.</li> </ul>			
<b>Learning Outcome:</b> At the end of the course students should be able to; <ul style="list-style-type: none"> <li>• Students can design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.</li> <li>• Students can use current techniques, skills, and tools necessary for computing practice.</li> <li>• An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems.</li> </ul>			
<b>Examination scheme:</b> The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
<b>Course Contents</b>			
<b>Unit-1 Database Management Systems</b>	Data, Database, Database Management Systems, Types of Database Management Systems Relational, Hierarchical, Network, and Object oriented database management systems, Entity Relationship Model (E-R Model), Data Model Normalization Theory, Codd's Rules for RDBMS.		
<b>Unit-2 RDBMS</b>	Concepts of RDBMS, Components of RDBMS Introduction to SQL, DDL, DML, DCL. Application Exercises		
<b>Unit-3 SQL</b>	Cartesian Product and Joins, Use of Union Intersection, Minus, SQL operators and functions, SQL select statement and type of queries, In, Exists Group by Having and Like clause in SQL, View Sequence and synonyms SQLPLUS		
<b>Unit -4 SQL/PLSQL</b>	Introduction to PL/SQL, The PL/SQL block constructs, using variables and SQL statement in the PL/SQL block PL/SQL constructs like If..Else..Endif, Loop Endloop, whileloop etc. Application Exercises		

<b>Unit -5 MS-Access/ Oracle</b>	Overview of MS-Access/Oracle, Main elements of Access,Table, Queries and Oracle Creating Forms, entering and updating data using Forms,finding, editing and deleting data in a Form, Reports, and Relationships.
<b>Learning Resources:</b> <b>Text Books:</b> <ol style="list-style-type: none"><li>1. Alexis Leon and Mathews Leon, “<b>Database Management System</b> ”, Vikas Publication, New Delhi, 2002</li><li>2. Rob Coronel “<b>Database System and Design ,Implementation and Management</b> “Thomson learning , Bangalore, 2002</li><li>3. SQL, PL/SQL “<b>The programming language of Oracle</b>” by Ivan Bayross (BPB Publications)</li></ol> <b>Suggested Readings:</b> <ol style="list-style-type: none"><li>1. Bipin C. Desai, “<b>An Introduction to Database Systems</b>”, Golgotha Publications Pvt. Ltd.,New Delhi, 2001</li></ol>	

<b>M.B.A. (e-commerce)</b> <b>Batch 2023-2028</b> <b>Semester II</b>			
<b>Subject Name</b>	<b>Operating System</b>	<b>Subject Code</b>	<b>MS6A-104</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: Core</b>			
<b>Course Objective:</b> <ul style="list-style-type: none"> <li>• To teach the basics of Operating System its architecture with technical mechanism of defining and usage of processes and scheduling and their utilities.</li> <li>• To bring familiarity about Device and Security Management in business System.</li> <li>• To explore the function of Operating System.</li> </ul>			
<b>Learning Outcome:</b> At the end of the course students should be able to; <ul style="list-style-type: none"> <li><input type="checkbox"/> Understanding of Operating System functions.</li> <li><input type="checkbox"/> Types of Operating System and their Utility.</li> <li><input type="checkbox"/> Choose the better System software and hardware platforms in business automation.</li> </ul>			
<b>Examination scheme:</b> The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
<b>Course Contents</b>			
<b>Unit-1 Operating system &amp; its Type</b>	Basics of Operating System, Definition, Architecture, Functions and Concept of time sharing, multiprogramming, Batch processing, real time operating system and distributed processing.		
<b>Unit-2 Processor Scheduling</b>	Processor Scheduling: Process, scheduling, various processor scheduling algorithms, Measurements of performance of processor schedule algorithms.		
<b>Unit-3 Inter processor communication</b>	Inter processor communication: Mutual exclusion & Synchronization, Concept of SEMAPHORS, Classical IPC problems.		
<b>Unit-4 Deadlocks</b>	Deadlocks: Deadlock Prevention, Detection, Recovery & Avoidance, Bankers' Algorithms.		
<b>Unit-5 Memory Management</b>	Memory Management: Functions, Algorithms, Single user memory Management, Static & Dynamic Partition, Compaction & Relocation, Paging Virtual memory sequestrations		

<b>Unit-6 File Systems</b>	File structure, Directory Structures, Disk block Allocation, Unix File System, File System consistency, Protection and sharing.
<b>Unit-7 I/O Systems</b>	I/O Systems: Various I/O devices, Drivers. Structure of I/O software, Clock.
<b>Learning Resources:</b> <ol style="list-style-type: none"><li>1. Operating System Design &amp; Implementation, Andrew S. Tanenbaum, PHI, New Delhi.</li><li>2. Advanced Concepts in Operating Systems, M. Singhal, N. G. Shivaratri, Tata McGraw Hill.</li><li>3. Operating systems, D.M. Dhamdhare, Tata McGraw Hill.</li><li>4. Operating Systems, Milan Milenkovi'c Tata McGraw Hill.</li><li>5. Distributed Operating Systems, Andrew S. Tanenbaum, Pearson Education Asia.</li></ol>	

<b>M.B.A. (e-commerce)</b> <b>Batch 2023-2028</b> <b>Semester II</b>			
<b>Subject Name</b>	<b>Digital Information System</b>	<b>Subject Code</b>	<b>MS6A-106</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: CORE</b>			
<b>Course Objective:</b> <ul style="list-style-type: none"> <li>• To teach the concepts of Digital information system and its uses.</li> <li>• Explain the elements of digital system abstractions such as digital representation of information, digital logic and Boolean algebra.</li> <li>• Use the “Tools of trade”. Basic instruments, devices and design tools.</li> <li>• Communicate the purpose and results of a design project in written and oral presentation.</li> </ul>			
<b>Learning Outcome:</b> At the end of the course students should be able to; <ul style="list-style-type: none"> <li>• Create the appropriate truth table from a description of a combinational logic function.</li> <li>• Describe how analog signals are used to represent digital values in different logic families.</li> <li>• Understand the leadership role of management information systems in organization.</li> </ul>			
<b>Examination scheme:</b> The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
<b>Course Contents</b>			
<b>UNIT –I Boolean algebra</b>	Laws and theorems of Boolean algebra. De Morgan's theorem, XOR and XNOR gates, Half and Full Adder and Subtractor circuits. Fundamentals: Products, Sum of products and Product of sums, Form of Boolean expressions, Truth Tables and Karnaugh maps, pair reads octets and Karnaugh simplification. Multiplexers BCD to Decimal to BCD decoders and, decoders’ characteristics of digital integrated digitals.		
<b>Unit-2 The Concept and Evolution of DIS</b>	Conceptual framework of DIS-System approach. Evolution of DIS. Design and development of DSS, ESS, OAS, Case Study		

<b>Unit-3 Information System and Business</b>	Information Systems and Organization Data & Information Management and Decision Making Information Systems and Society. MIS and its technical and behavioral aspects in business. Case Study
<b>Unit- 4 Management Decision Making</b>	Information Management. Decision Making-What managersdo, behavioral model. Classical description of management. Level of decision making, types of decisions, structured unstructured types of decisions systems stages of decision making, Individual model of decision making. Case Study
<b>Unit -5 Modules of Information Systems</b>	Modularization process of information system Types of sub modules/ sub systems Features and Specifications of sub systems Case Study
<b>Unit -6 Integrated Information System</b>	Integrated Information Systems: BIS, ERP Introductions MRP, MRP-II, Definition Implementation Benefits & Precautions ERP software. Introduction to Artificial Intelligence and Knowledge Management
<b>Learning Resources:</b> <ol style="list-style-type: none"> <li>1. Murdick. et. al. Information System for Modern Management- PHI.</li> <li>2. London &amp; London – Management Information Systems – PHI</li> <li>3. Obrien – Management Information System</li> </ol>	

<b>M.B.A. (E-Commerce)</b>			
<b>Batch 2023-2028</b>			
<b>Semester II</b>			
<b>Subject Name</b>	<b>Individual and Interpersonal Behavior</b>	<b>Subject Code</b>	<b>MS6A-108</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: CORE</b>			
<b>Course Objective:</b>			
<ul style="list-style-type: none"> <li>• To help the students aware about the latest systems available and proper uses of system for their software development.</li> <li>• To provide the necessary foundation for all other courses based on management practices across the world.</li> </ul>			
<b>Learning Outcome:</b> At the end of the course students should be able to;			
<ul style="list-style-type: none"> <li>• Define individual and interpersonal behavior and explain motivation and group behavior.</li> <li>• Briefly describe the leadership role and stress management in individual and interpersonal behavior.</li> </ul>			
<b>Examination scheme:</b>			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
<b>Course Contents</b>			
<b>UNIT-1 Foundations of individual behavior</b>	Biographical characteristics, Learning and learning theories, Perception and its role in managerial decision making. Personality – Determinants and Attribute		
<b>UNIT-2 Motivation</b>	Needs, contents and processes, Maslow's Hierarchy of needs, Herzberg's Two Factor theory, ERG theory		
<b>UNIT-3 Foundation of group Behavior</b>	Defining and Classifying Groups, Group Structure and Processes, Process of Group formation. Group decision making, Group v/s teams, Team effectiveness, Communication – Process, fundamentals and issue		
<b>UNIT-4 Leadership</b>	Trait theories, Behavioural theories – Ohio State Studies, Michigan Studies and Managerial Grid; Contingency theory Situational theory; Contemporary issues in Leadership		



<b>UNIT-5 Stress Management</b>	Stress Management – Potential Sources, Consequences and Coping Strategies for stress.
<b>Learning Resources:</b> <ol style="list-style-type: none"> <li>1. Human Resource Management – Gary Dessler, Pearson Education</li> <li>2. Managing Human Resources – Devid B. Balkin, Pearson Education</li> <li>3. Organizational Behavior by Stephen Robbins, PHI.</li> <li>4. Organization Behaviour by Fred Luthans, PH</li> </ol>	

<b>M.B.A (E-Commerce)</b> <b>Batch 2023-2028</b> <b>Semester II</b>			
<b>Subject Name</b>	<b>Business Statistics</b>	<b>Subject Code</b>	<b>MS6A-110</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: Core</b>			
<b>Course Objective:</b> <ul style="list-style-type: none"> <li>• To teach the concepts of business statistics and its principles.</li> <li>• To develop understanding of statistical concepts to include probability, sampling, hypothesis testing, regression etc.</li> </ul>			
<b>Learning Outcome:</b> At the end of the course students should be able to; <ul style="list-style-type: none"> <li>• Independently calculate basic statistical parameters (mean, dispersion, correlation coefficient)</li> <li>• Based on the acquired knowledge to interpret the meaning of the calculated statistical indicators.</li> <li>• Choose a statistical method for solving practical problems.</li> </ul>			
<b>Examination scheme:</b> The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
<b>Course Contents</b>			
<b>UNIT-1 Introduction to Quantitative Techniques</b>	1.1 Introduction to Quantitative Techniques and Statistics		

<b>Unit-2 Introduction to Statistical Methods</b>	Introduction to statistical methods – Collection of data, Security of data, Presentation of numerical data and its diagrammatic representation.
<b>Unit-3 Central Measurements</b>	Measures of Central Tendency and Dispersion – Arithmetic Mean Median, Mode, Range, Mean deviation and standard deviation.
<b>Unit-4 Concept of Probability</b>	Basic Concepts of probability. Probability Distribution – Binomial, Poisson and Normal Distribution.
<b>Unit-5 Sampling Methodology</b>	Sampling, Sampling methods, sampling Non sampling errors
<b>Unit-6 Decision Theory</b>	6.1 Decision Theory Introduction to Decision Theory.
<b>Unit-7 Correlation and Regression</b>	Simple Correlation and Regression Simple Regression and Simple Correlation, Trend Analysis using Regression line, Correlation Analysis
<b>Learning Resources:</b> <b>Text Books:</b> 1. Business Statistics – J.K. Sharma, Pearson Education 2. Fundamental of Statistics, D.N. Elhance 3. Statistical Methods, Prof. S.P. Gupta 4. Statistics for Management, Prof. R.I. Levin 5. Statistics Theory, Methods and Applications, Sancheti and Kapoor.	

<b>M.B.A. (E-Commerce)</b> <b>Batch 2023-2028</b> <b>Semester II</b>			
<b>Subject Name</b>	<b>English</b>	<b>Subject Code</b>	<b>MS6A-112</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: CORE</b>			
<b>Course Objective:</b>			
<ul style="list-style-type: none"> <li>• To teach the Importance of language and Literature</li> <li>• To create awareness of grammar and develop student's listening, speaking and writing power.</li> <li>• To help students to explore their hidden personality.</li> </ul>			

<p><b>Learning Outcome:</b> At the end of the course students should be able to;</p> <ol style="list-style-type: none"> <li>1. Develop the confidence of expressing themselves in the right direction</li> <li>2. Should understand and make correct utilization of their knowledge of English Language</li> <li>3. Have equal command over different aspects like reading, writing, listening and speaking the language.</li> </ol>	
<p><b>Examination scheme:</b> The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 markshaving theory and cases/practical problems.</p>	
<p><b>Course Contents</b></p>	
<p><b>UNIT –I Prose</b></p>	<p>On Saying Please On Habits On Courage On Fear On Keyhole Morals</p>
<p><b>Unit-2 Poetry</b></p>	<p>On His Blindness – John Milton It is not growing like a tree- Ben Jonson Elegy Written in a country churchyard- Thomas Gray</p>
<p><b>Unit-3 English Grammar &amp; Usages</b></p>	<p>Concord; Agreement of the verb with its subject , Structure of sentences, Active &amp; Passive voice , Reported Speech , Idioms &amp; Phrases</p>
<p><b>Unit- 4 Writing &amp; Communication Skills</b></p>	<p>Paragraph writing, Precis writing , Letter &amp; Application writing &amp; Business Doc writing Preparing RESUME (CV)</p>
<p><b>Unit -5 Business Writing</b></p>	<p>Email &amp; SMS Rules Contract writing , RFP, RFQ, Proposal, SRS Business Terminology – eg: EOB, EOD, SRS</p>
<p><b>Learning Resources:</b></p> <ol style="list-style-type: none"> <li>1. Kumkum Bhardwaj, Professional Communication, I.K International Publication, New Delhi</li> <li>2. Solomon Ambuchelvan, ' What is What of English', Acme Learning</li> <li>3. Deepshikha Jain, Communicative English Parshva Publishers</li> <li>4. Rajshri Dewan, English and Business Communication Amce Learning</li> </ol>	

<b>M.B.A. (E-Commerce)</b> <b>Batch 2023-2028</b> <b>Semester II</b>			
<b>Subject Name</b>	<b>Business Accounting</b>	<b>Subject Code</b>	<b>MS6A-114</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: Elective</b>			
<b>Course Objective:</b>			
<ul style="list-style-type: none"> <li>• To teach the concepts of accounting and its principles.</li> <li>• To bring familiarity applications of accounting in business functions.</li> <li>• To explore the process of role of accounting in maintaining systematic records.</li> </ul>			
<b>Learning Outcome:</b>			
At the end of the course students should be able to;			
<ul style="list-style-type: none"> <li>• Know the concepts of Accounting and their applications in recording.</li> <li>• Understanding relationship between business and accounting.</li> <li>• Differentiation of accounting and finance in various business functions.</li> </ul>			
<b>Examination scheme:</b>			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
<b>Course Contents</b>			
<b>Unit –I Introduction, Meaning and Definitions</b>	Introduction to Accounting: Meaning of Accounting The process of Accounting, Advantages of Accounting Financial Accounting, Financial Statements, Uses of Financial Statements Limitations of Accounting. Relationship with other functional areas		
<b>Unit-2 Accounting Concepts and their Applications</b>	Accounting concepts and Mechanics: Generally Accepted Accounting Principles (GAAP) Basic Concepts, Concepts of Double entry system of accounting rules of debit credit entries Types of accounts, Journalizing the transactions Posting entries in ledger accounts and concept of trial balance, Cash Books, Subsidiary Books.		
<b>Unit-3 Financial Statement and Others</b>	Preparation of Financial Statements Trading Account, Profit and Loss Account Balance Sheet and Adjustment Entries.		

<b>Unit- 4 Depreciation</b>	Depreciation: Meaning, Objectives, Methods of Depreciation. Fixed Installment Methods and Reducing Installment Methods Numerical Experiments
<b>Learning Resources:</b>	
<b>Text Books:</b>	
1. T.S.Grewal, Introduction to Accountancy, Sultan and Sons, New Delhi.	
2. T.S.Grewal, Double Entry System of Book Keeping, Sultan Chand and Sons	
3. Maaheswari, Financial Accounting, Vikas Publications, New Delhi.	

<b>M.B.A. (E-Commerce) Batch 2023-2028 Semester II</b>			
<b>Subject Name</b>	<b>Environmental sustainability &amp; climate change mitigation</b>	<b>Subject Code</b>	<b>MS6A-116</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: Elective</b>			
<b>Course Objective:</b>			
<ul style="list-style-type: none"> <li>• To develop global prospective about the environmental management</li> <li>• To develop understanding of how environmental an ecosystem services are crucialelements to reduce disaster risk in Business.</li> <li>• To bring climate change mitigation and other options for sustainable development, carbon trading a new concept.</li> </ul>			
<b>Learning Outcome:</b>			
After completion of this course students will be capable to:			
<ol style="list-style-type: none"> <li>1. Understand how environment and ecosystem services are crucial elements to the societyand business</li> <li>2. Identify their roles and responsibility towards the environment at individual and grouplevel.</li> <li>3. Explore the way to keep sustainable environment for the present and next generations</li> </ol>			
<b>Examination scheme:</b>			
The faculty member will award internal marks out of 40 based on three assessments of 20 markseach of which best two will be considered. The end semester examination will be worth 60 marks			
having theory and cases/practical problems consisting 7/8 questions with a note of attempt anyfive or more by mentioning marks of each question. .			
<b>Course Contents</b>			

Unit I Introduction	1. Basic concept of environment and ecosystem, 2. Global environmental issues, environmental sustainability, from unsustainable sustainable development. 3. Path to sustainability, Global environmental summits. 4. Objective and the components of environmental management.
Unit II Environmental Impact Assessment	1. Management tools Environmental impact assessment. 2. The millennium ecosystem assessment. 3. Brief introduction of HYOGO framework Biosafety Cartagena protocol.
Unit III Risk and Challenges	1. Environmental risk, global climate changes: causes, impact, 2. Ozone depletion and its consequences. 3. Kyoto protocol and Montreal protocol
Unit IV Climate Change Mitigation	1. Case studies of climate related disasters: Climate change mitigation CDM 2. Carbon trading.
Unit V National and International Efforts	1. Role and efforts of International Agencies in Strengthening nations for sustainable development special Reference to UNEP, WRI, WORLD BANK 2. Indian Ecosystem and Role of Education in Disaster Management 3. Case Studies

**Learning Resources:****Text Books:** (Latest Edition)

1. Environmental Management, N.K. Liberoi, Excell Books
2. Environmental Science, G. Tylor Miller, Jr. Cengage Learning

<b>INSTITUTE OF MANAGEMENT STUDIES</b>			
<b>M.B.A. (eCommerce)</b>			
<b>Batch 2023-2028</b>			
<b>Semester II</b>			
<b>Subject Name</b>	<b>Corporate English</b>	<b>Subject Code</b>	<b>MS6A-118</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: Elective</b>			
<b>Course Objective:</b>			
<ul style="list-style-type: none"> <li>• The Corporate English course for undergraduate management students aims to equip learners with effective communication skills required in the corporate world. This course focuses on enhancing students' verbal and written communication abilities, emphasizing business-specific language, etiquette, and communication strategies.</li> </ul>			

<p><b>Learning Outcome:</b> At the end of the course students should be able to;</p> <ul style="list-style-type: none"> <li>• Communicate confidently and effectively in various business contexts.</li> <li>• Write professional emails, reports, and other business documents.</li> <li>• Conduct successful business presentations and meetings.</li> <li>• Understand and utilize business vocabulary and terminology.</li> </ul>	
<p><b>Examination scheme:</b> The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 markshaving theory and cases/practical problems.</p>	
<p><b>Course Contents</b></p>	
<p><b>UNIT –I</b> <b>Introduction to Corporate Communication</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Importance of effective communication in the corporate world</li> <li><input type="checkbox"/> Differences between academic and corporate communication</li> <li><input type="checkbox"/> Overview of business communication strategies</li> </ul>
<p><b>Unit-2</b> <b>Business Writing Skills</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Crafting professional emails and memos</li> <li><input type="checkbox"/> Writing business reports and proposals</li> <li><input type="checkbox"/> Creating persuasive business documents</li> </ul>
<p><b>Unit-3</b> <b>Oral Communication in Business</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Conducting successful business presentations</li> <li><input type="checkbox"/> Participating in meetings and discussions</li> <li><input type="checkbox"/> Practicing effective negotiation and persuasion</li> </ul>
<p><b>Unit 4</b> <b>Business Vocabulary and Terminology</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Building a strong business vocabulary</li> <li><input type="checkbox"/> Understanding industry-specific terms</li> <li><input type="checkbox"/> Using appropriate terminology in communication</li> </ul>
<p><b>Unit 5</b> <b>Communication Etiquette in the Corporate World</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Professional phone etiquette</li> <li><input type="checkbox"/> Business dining and networking etiquette</li> <li><input type="checkbox"/> Cross-cultural communication considerations</li> </ul>
<p><b>Recommended Textbooks:</b></p>	
<ol style="list-style-type: none"> <li>1. <b>Business Communication: Building Critical Skills</b> by Kitty O. Locker and Stephen Kyo Kaczmarek</li> <li>2. <b>Effective Business Communication</b> by Herta A. Murphy and Herbert W.</li> </ol>	

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3. **The AMA Handbook of Business Writing** by Kevin Wilson and Jennifer Wauson

<b>M.B.A. (e-Commerce)</b>			
<b>Batch 2023-2028</b>			
<b>Semester II</b>			
<b>Subject Name</b>	<b>Data Structures using C</b>	<b>Subject Code</b>	<b>MS6A-120</b>
		<b>Total Credits</b>	<b>03</b>
<b>Subject Nature: Elective</b>			
<b>Course Objective:</b>			
<ul style="list-style-type: none"> <li>• To teach the basics of programming and structures of data with technical mechanism of defining and usage of variables and functions in developing the different software.</li> <li>• To bring familiarity about logic development and applications in business functions.</li> <li>• To explore the process of Computing and Programming together.</li> </ul>			
<b>Learning Outcome:</b>			
At the end of the course students should be able to;			
<ol style="list-style-type: none"> <li>1. Understanding of logic and applications through programming.</li> <li>2. Applications and computer language compatibility.</li> <li>3. Choose the better software and hardware platforms in business automation.</li> </ol>			
<b>Examination scheme:</b>			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
<b>Course Contents</b>			
<b>UNIT –I Introduction to Algorithms and Data Structures</b>	Definition and Characteristics of Algorithms Data Structure: Definition and Types, Relation between datastructure and algorithm Static variable, Dynamic variable, Representation and address calculation of single and multidimensional array in memory, Sparse Matrix Time and space complexity of algorithm.		



<b>Unit-2 C Programming Concepts</b>	General structure of C program, C character set, Data types, Operators, if, if-else, while, do-while, for, switch statements Function: Declaration, definition and calling, call by value and reference
	Introduction to pointers, Pointer notation Structures: Need, Declaring Structure, Accessing structure elements
<b>Unit-3 Stacks and Queues</b>	Representation of stacks, Operations on stack Representation of queues, Operations on queues Multiple queues, Circular queues, De-queues, Applications of stack and queues, Implementation through C program, Expression evaluation
<b>Unit- 4 Linked Lists and Trees</b>	Representation and Implementation of Linked Lists Types of Linked Lists: Singly, Doubly, Circular. Trees: Basic concept, definitions and types Binary Tree: Traversal and Operations Applications of trees
<b>Unit -5 Searching and Sorting</b>	Searching: Concept, Techniques and algorithms Sorting: Concept, Types of sorting, Importance
<b>Unit-6 Hash and Graphs</b>	Hash table, Hash techniques Graphs: definition, representation, traversal and applications.
<b>Learning Resources:</b> <b>Text Books:</b> <ol style="list-style-type: none"> <li>1. Data structure using C and C ++ by Langsam, Augenstein, Tenenbaum PHI publishers</li> <li>2. Algorithm + data structure = Program by Niklaus Wirth Prentice Hall Publishers.</li> <li>3. Data structure using C Robert Kruse Data structure with C++ by Drozdek</li> <li>4. Data Structures - Lipschutz, Schaum's Outline Series</li> </ol>	