Syllabus Prescribed for 3 Years Under Graduate Programme (CBCS)

Programme: B.com. II (Management and Entrepreneurship Development) Semester - IV

Title of the book- **Pristine**

Code of the Course/Subject	Title of the Course/Subject	Total number of Periods
BC 41	**English**	**36**

Unit 1- Prose-

1)India's Message to the World- Swami Vivekanand
2)On Forgetting –Robert Lynd
3)Indra Nooyi : A Corporate Giant

Unit 2- Poetry-

1)the Soul's Prayer –Sarojini Naidu
2)The Mountain and the Squirrel- R.W. Emerson
3)Nature- W.H. Longfellow

Unit 3-Communication and Soft Skills

1)Group Discussion 2)Advertisements
3)Creative Writing: Situational Dialogues

Unit	Content	Number of Periods
1	**Prose** 1)India's Message to the World- Swami Vivekanand 2)On Forgetting –Robert Lynd 3)Indra Nooyi : A Corporate Giant	**14**
2	**Poetry** 1)The Soul's Prayer –Sarojini Naidu 2)The Mountain and the Squirrel- R.W. Emerson 3)Nature- W.H. Longfellow	**10**
3	**Communication and Soft Skills** 1)Group Discussion 2)Advertisements 3)Creative Writing: Situational Dialogues	**12**

Question wise Distribution of Marks

Prose- Q.1) A) Solve any One long questions out of Two.- 5 Marks h- 6 Marks

Poetry- Q.2)
A) Solve any One long question out of Two. - 5 Marks
B) Solve any Two short questions out of Three. - 4 Marks

MCQ- Q.3) Attempt all multiple choice questions based on prose and poetry- 10 Marks Communication and Soft Skills-
Q. 4) Solve any Twoquestions out of Three. -10 Marks

Internal Assessment

1)Assignment - 5 Marks

2)Class Test - 5 M

Syllabus Prescribed for 3 Years Under Graduate Programme (CBCS)

Programme: B.com. II (Management and Entrepreneurship Development) Semester - IV

Code of the Subject	Title of the Course\Subject	Total Number of Periods
BC-42	Marathi	36

अभ्यासपत्रिकेची निष्पती (COs) :

१. नेमलेल्या साहित्यातून जीवनदर्शन, समकालीन व्यवहार जाणीवा यांची माहिती होईल.

२. वैचारिक, ललित, कविता या विविध वाड्.मय प्रकाराचे ज्ञान होईल. या वाड्.मय प्रकाराचे वेगळेपण जाणून घेतील तथा यामधील साम्यभेदाचे आकलन होईल.

३. वैचारिक गद्यातून भाषेच्या सर्जनशीलरूपाचे विद्यार्थ्यांना आकलन होईल. तसेच चारित्र्यविषय असलेल्या थोर व्यक्तींच्या जीवनकार्यातून विद्यार्थ्यांना प्रेरणा मिळेल आणि संकटावर मात करून जीवनात यशस्वी होता येते हा विचार त्यांच्या मनी रूजेल.

४. ललित कलाकृतीच्या वाचनातून आनंद, बोध, ज्ञान इत्यादींची प्राप्ती होऊन विद्यार्थ्यांच्या जीवनविषयक जाणिवा समृद्ध होतील.

५. वैचारिकता, तात्विकता, काव्यात्मकता, भावनात्मकता, सामान्य गोष्टीतील असामान्यत्वाचे दर्शन यातून विद्यार्थ्यांचा दृष्टीकोण संपन्न होईल.

६ विविध प्रकारच्या साहित्याचे आकलन, वर्णन, आस्वादन, विश्लेषण आणि मूल्यमापन करण्याची क्षमता वाढून विद्यार्थ्यांची अभिरूची विकसित होईल.

७. या वाड्.मय प्रकारातून विविध प्रकारचे नीतिमूल्ये, जीवनमूल्ये, यांची शिकवण विद्यार्थ्यांना मिळेल, त्याचा उपयोग उत्तमरीतीने जिवन जगण्यासाठी होईल.

८ .'उपयोजित' घटकाच्या माध्यमातून विविध प्रकारची कौशल्ये त्यांच्यात निर्माण होतील व ते रोजगारक्षम होतील.

९ विचारवंत, लेखक, कवी होण्यासाठी हे अध्ययन प्रेरक ठरेल, सहाय्यभूत ठरेल. यातून विद्यार्थी भाषेचा सर्जनशील वापर कसा करावा हे समजून घेतील व विविध प्रकारातील साहित्य निर्मिती करतील. तसेच व्यावहारिक उपयोजन करून रोजगारक्षम होतील

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका (Teaching Hours)	श्रेयांक Credit
विभाग अ	**वैचारिक**	१०	२.०
१)	तरूणांनो! निर्भय बना, शूर बना - स्वामी विवेकानंद		
२)	गाडगे महाराज एका आगळ्या संतत्वाचा धनी- अण्णासाहेब वैद्य		
३)	'आलेम्बिक' उद्योगसमूह एक प्रेरणा - अनंत मराठे		
विभाग ब	**ललित**	१०	
१)	जोती: जीवनात आणि कवितेत - अरुणा ढेरे		
२)	मोयी - सतीश तराळ		
३)	कष्टाची भाकरी - सचिन वसंत पाटील		
विभाग क	**कविता**	१०	
१)	डोईचा पदर आला खांद्यावरी - जनाबाई		
२)	वनसुधा - वामन पंडित		
३)	दणकट दंडस्नायू जैसे- बा. सी. मर्ढेकर		
४)	सण - वा. ना. आंधळे		
५)	मीच कवितेचा बाप झालो - लक्ष्मण महाडिक		
६)	फगवा - गजानन देशमुख		
विभाग ड	**उपयोजित मराठी (Skill Enhancement Module)**	०६	
	१) टिपणी लेखन		
	२) प्रसारमाध्यमांसाठी लेखन		
		36	**२.०**

संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती

पसंतीवर आधारित श्रेयांक पद्धती (CBCS) अभ्यासक्रम २०२३-२४

बी. कॉम. भाग- २ मराठी (द्वितीय भाषा)
सत्र ४ थे

गुण विभागणी

एकूण गुण ५०
लेखी परीक्षा गुण ४०
वेळ २ तास
कौशल्य विकासावर आधारित अंतर्गत मूल्यमापन -१०

अभ्यासक्रमासाठी नेगलेले पाठ्यपुस्तक-

'अक्षरलेणी भाग-२ (सत्र-३ व सत्र-४) (संपादित)

प्रकाशकाचे नावः राघव पब्लिशर्स अॅण्ड डिस्ट्रीब्युटर्स, नागपूर

(विभाग 'अ', 'ब' आणि 'क' साठी)

'उपयोजित मराठी - संपादक डॉ. केतकी मोडक, संतोष शेणई, सुजाता शेणई पद्द्मगंधा प्रकाशन, पुणे या

पुस्तकातील
(विभाग 'ड' साठी)
प्रकरण १४ वे - टिपणी लेखन- डॉ. लतिका जाधव
प्रकरण १७ वे -प्रसारमाध्यमांसाठी लेखन - संतोष शेणई

विभाग अ	वैचारिक	-	१२ गुण
विभाग ब	ललित	-	१० गुण
विभाग क	कविता	-	०९ गुण
विभाग ड	उपयोजित मराठी	-	०९ गुण

प्रश्ननिहाय गुणविभागणी:- **३० गुण**

प्रश्न १ वैचारिक विभाग	दीघोत्तरी एक प्रश्न	०६ गुण
प्रश्न २ वैचारिक विभाग	लघुत्तरी एक प्रश्न	०३ गुण
प्रश्न ३ ललित विभाग	दीर्घोत्तरी एक प्रश्न	०५ गुण
प्रश्न ४. ललित विभाग	लघुत्तरी एक प्रश्न	०२ गुण
प्रश्न ५ कविता विभाग	दीर्घोत्तरी एक प्रश्न	०५ गुण
प्रश्न ६ कविता विभाग	लघुत्तरी एक प्रश्न	०२ गुण
प्रश्न ७ उपयोजित मराठी	दीघोत्तरी एक प्रश्न	०५ गुण
प्रश्न ८ उपयोजित मराठी	लघुत्तरी एक प्रश्न	०२ गुण

(वरील सर्व प्रश्नांना अतर्गत पर्याय राहतील.)

वस्तुनिष्ठ प्रश्न - **१० गुण**

उपरोक्त अभ्यासक्रमातील विभाग अ व ब यावर प्रत्येकी ०३ प्रश्न आणि विभाग 'क' व 'ड' यावर प्रत्येकी ०२ प्रश्न वस्तुनिष्ठ स्वरुपाचे असे एकूण १० बहुपर्यायी प्रश्न विचारले जातील, प्रत्येक प्रश्नास ०१ गुण याप्रमाणे हा प्रश्न १० गुणांचा असेल

विभाग 'ड' साठी संदर्भ ग्रंथ म्हणून उपयोजित मराठी संपादक डॉ. केतकी मोडक, संतोष शेणई, सुजाता शेणई - पद्मगंधा प्रकाशन, पुणे या पुस्तकातील **प्रकरण १४ वे** टिपणी लेखन व **प्रकरण १७ वे** प्रसारमाध्यमांसाठी लेखन या प्रकरणावर ०४ गुणांचा ०१ दीर्घोत्तरी व ०३ गुणांचा ०१ लघुत्तरी प्रश्न विचारल्या जाईल.

कौशल्य विकासावर आधारित अंतर्गत मूल्यमापन :- **१० गुण**

गुण विभागणी

१) घटक चाचणी (Class Test)- ०१ - ०५ गुण

२) स्वाध्याय (Home Assignment) - ०५ गुण

सूचना :-(१) महाविद्यालयातील सांस्कृतिक कार्यक्रमाची वृत्तपत्र, आकाशवाणी, दूरचित्रवाणीसाठी बातमी तयार करा

Part - B BCE-43

Syllabus Prescribed for 3 Years Under Graduate Programme (CBCS)

Programme: B.com. II (Management and Entrepreneurship Development) Semester - IV

Code of Subject	Title of Subject	Total no. of Period
BCE : 43	(DSC) System analysis and design	60

Course Outcomes :

1. Students will comprehend the various phases of the SDLC including planning, analysis, design, implementation, and maintenance.
2. Students will be able to utilize a range of techniques such as interviews, surveys, and observations to elicit and document system requirements effectively.
3. Students will demonstrate the ability to design modular, scalable, and user-friendly information systems using appropriate design principles and methodologies.
4. Students will employ coding standards, testing methodologies, and version control systems to implement and deploy information systems following industry best practices.
5. Students will be able to assess the effectiveness and efficiency of information systems by analyzing user feedback, monitoring system performance, and conducting post-implementation reviews.

Units	Contents	No. of Periods
Unit - I	**Introduction to Systems Analysis and Design** Overview of systems analysis and design process ;Understanding the role of systems analysts ;Systems development life cycle (SDLC) ;mportance of requirements gathering and analysis ;Introduction to various methodologies (Waterfall, Agile, etc.) ;Case studies and examples of successful systems analysis and design projects	12
Unit - II	**Requirements Gathering and Analysis** Techniques for gathering requirements (interviews, surveys, observations, etc.) ;Documentation of requirements (use cases, user stories, functional specifications, etc.) ;Requirements validation and verification ;Prioritization and management of requirements ;Tools and software for requirements gathering and analysis ;Practical exercises and case studies on requirement gathering	12
Unit - III	**System Design** Principles of system design (modularity, abstraction, cohesion, coupling, etc.) ;Architectural design (component-based, client-server, etc.) ;Data design and database management systems ;Interface design and user experience considerations ;System modeling techniques (UML, data flow diagrams, entity-relationship diagrams, etc.) ;Design patterns and best practices ;Hands-on design exercises and projects	12
Unit - IV	**Implementation and Testing** Coding practices and standards ;Software development methodologies (Waterfall, Agile, DevOps, etc.) ;Unit testing, integration testing, and system testing ;Debugging techniques and tools ;Configuration management and version control ;Deployment strategies and considerations ;Case studies on successful implementation and testing processes	12
Unit - V	**System Maintenance and Evaluation** Importance of system maintenance and support ;Types of maintenance (corrective, adaptive, perfective, preventive) ;Change management and version control ;Monitoring and performance tuning ;User training and documentation ;Evaluation of system effectiveness and efficiency ;Post-implementation review and lessons learned	12

Reference Books :

1. "Systems Analysis and Design" by Alan Dennis, Barbara Haley Wixom, and Roberta M. Roth
2. "Modern Systems Analysis and Design" by Jeffrey A. Hoffer, Joey F. George, and Joseph S. Valacich
3. "Object-Oriented Systems Analysis and Design Using UML" by Simon Bennett, Steve McRobb, and Ray Farmer
4. "Systems Analysis and Design Methods" by Jeffrey L. Whitten, Lonnie D. Bentley, and Kevin C. Dittman
5. "Information Systems Analysis and Design" by Scott Tilley and Harry J. Rosenblatt

Part - B BCE-44

Syllabus Prescribed for 3 Years Under Graduate Programme (CBCS)

Programme: B.com. II (Management and Entrepreneurship Development) Semester - IV

Code of Subject	Title of Subject	Total no. of Period
BCE : 44	(DSC) IT Architecture	60

Course Outcomes :

1. Understand the fundamental principles and concepts of IT architecture.
2. Gain familiarity with prominent enterprise architecture frameworks.
3. Understand the principles underlying the design of IT solutions and architectures.
4. Develop strategies for the effective implementation of IT architectures.
5. Identify emerging technologies shaping the future of IT architecture.

Units	Contents	No. of Periods
Unit - I	**Introduction to IT Architecture** Overview of IT architecture principles and concepts ;Importance of IT architecture in modern organizations ;Types of IT architectures (enterprise architecture, solution architecture, technical architecture) ;Role of IT architects and their responsibilities	12
Unit - II	**Enterprise Architecture Frameworks** Overview of popular enterprise architecture frameworks (TOGAF, Zachman Framework, etc.) ;Comparison of different enterprise architecture frameworks ;Understanding the structure and components of enterprise architecture frameworks ;Practical application of enterprise architecture frameworks in organizational settings	12
Unit - III	**Designing IT Solutions and Architectures** Principles of designing IT solutions and architectures ;Requirements gathering and analysis for IT architecture projects ;Architecture design methodologies and best practices ;Modeling techniques for representing IT architectures (e.g., UML, ArchiMate) ;Integration of business requirements with IT architecture design	12
Unit - IV	**Implementation and Governance of IT Architectures** Strategies for implementing IT architectures ;IT architecture governance and compliance ;Risk management in IT architecture implementation ;Monitoring and maintaining IT architectures ;Change management and adaptation of IT architectures to evolving business needs	12
Unit - V	**Emerging Trends in IT Architecture** Exploration of emerging technologies impacting IT architecture (cloud computing, IoT, AI, etc.) ;Evolution of IT architecture in response to digital transformation ;Future directions and challenges in IT architecture ;Strategies for aligning IT architecture with emerging business trends	12

Reference Books:

1. "Enterprise Architecture As Strategy: Creating a Foundation for Business Execution" by Jeanne W. Ross, Peter Weill, and David Robertson
2. "TOGAF 9 Certified Study Guide" by Rachel Harrison
3. "IT Architecture For Dummies" by Kalani Kirk Hausman, Susan L. Cook
4. "IT Governance: How Top Performers Manage IT Decision Rights for Superior Results" by Peter Weill, Jeanne W. Ross
5. "The Art of Enterprise Information Architecture: A Systems-Based Approach for Unlocking Business Insight" by Mario Godinez, Eberhard Hechler, Klaus Koenig, Steve Lockwood

Part - B BCE-45

Syllabus Prescribed for 3 Years Under Graduate Programme (CBCS)

Programme: B.com. II (Management and Entrepreneurship Development) Semester - IV

Code of Subject	Title of Subject	Total no. of Period
BCE : 45	(DSC) Auditing Tools	60

Course Outcomes :

1. Understand the importance of auditing tools in information security.
2. Gain proficiency in using network auditing tools for scanning and vulnerability assessment.
3. Understand common vulnerabilities in web applications and their impact on security.
4. Understand the significance of log analysis in detecting and responding to security incidents.
5. Understand regulatory compliance requirements and their implications for organizations.

Units	Contents	No. of Periods
Unit - I	**Introduction to Auditing Tools** Overview of auditing in information technology ;Introduction to auditing tools and software ;Types of auditing tools (network scanners, vulnerability scanners, log analysis tools, etc.) ;Understanding the role of auditing tools in cybersecurity ;Legal and ethical considerations in auditing	12
Unit - II	**Network Auditing Tools** Introduction to network auditing ;Network scanning techniques and tools (Nmap, Nessus, OpenVAS, etc.) ;Vulnerability assessment tools and methodologies ;Intrusion detection and prevention systems (IDS/IPS) ;Configuration management tools	12
Unit - III	**Web Application Auditing Tools** Overview of web application security ;Common web vulnerabilities (SQL injection, cross-site scripting, etc.) ;Web application scanning tools (Acunetix, Burp Suite, OWASP ZAP, etc.) ;Security testing methodologies (black-box testing, white-box testing, etc.) ;Web application firewall (WAF) and its role in security	12
Unit - IV	**Log Analysis and Monitoring Tools** Importance of log analysis in cybersecurity ;Log management and monitoring tools (Splunk, ELK stack, etc.) ;Security information and event management (SIEM) systems ;Correlation and analysis of security events ;Threat intelligence platforms	12
Unit - V	**Compliance and Auditing Frameworks** Overview of compliance requirements (PCI DSS, HIPAA, GDPR, etc.) ;Auditing frameworks and standards (ISO 27001, NIST Cybersecurity Framework, etc.) ;Role of auditing tools in compliance assessments ;Auditing for regulatory compliance	12

Reference Books :

1. "Auditing and Assurance Services" by Alvin A. Arens, Randal J. Elder, and Mark S. Beasley
2. "Nmap Network Scanning: The Official Nmap Project Guide to Network Discovery and Security Scanning" by Gordon Lyon
3. "The Web Application Hacker's Handbook: Finding and Exploiting Security Flaws" by Dafydd Stuttard and Marcus Pinto
4. "The Practice of Network Security Monitoring: Understanding Incident Detection and Response" by Richard Bejtlich
5. PCI Compliance: Understand and Implement Effective PCI Data Security Standard Compliance" by Dr. Anton Chuvakin

Part - B BCE : 46

Syllabus Prescribed for 3 Years Under Graduate Programme (CBCS)

Programme: B.com. II (Management and Entrepreneurship Development) Semester - IV

Code of Subject	Title of Subject	Total no. of Period
BCE : 46	(DSC) Stock Exchange and Share Marketing	60

Learning Outcomes:

1. Understand the nature and role of financial structure in an economy.
2. Comprehend the concept and functions of the money market in the financial system.
3. Develop an overview of the Indian securities market, including its meaning, functions, and intermediaries.
4. Understand the meaning, nature, and functions of the secondary market.
5. Understand the concept, history, and functions of derivatives markets.

Units	Contents	No. of Periods
Unit - I	**FINANCIAL SYSTEM AND SERVICES :** Nature and role of financial structure - Financial system and financial markets - Financial system and economic development - Indian financial system: an overview; Investment alternatives and evaluation ; Reforms in financial system, Investment banking ; Credit Rating ; Factoring and Forfaiting ; Housing Finance	12
Unit - II	**FINANCIAL MARKETS :** Money market- meaning, constituents & function ; Money market instruments – call money, treasury bills, and certificate of deposits, Commercial bills, and trade bills, Acceptance Houses, Discount Houses ; Capital markets – primary and secondary market ; Government securities markets ; Role of SEBI - an overview and recent developments. Role of RBI,SEBI.DFHI,SHCI in Financial Markets.	12
Unit - III	**Capital Markets in India :** An overview of Indian Securities Market, Meaning, Functions, Intermediaries, Role of Primary Market – Methods of floatation of capital – Problems of New Issues Market – IPO's – Investor protection in primary market – Recent trends in primary market – SEBI measures for primary market.	12
Unit - IV	**Stock exchanges and its Functions :** Meaning, Nature, Functions of Secondary Market – Organisation and Regulatory framework for stock exchanges in India – SEBI : functions and measures for secondary market – Overview of major stock exchanges in India - Listing of Securities: Meaning – Merits and Demerits – Listing requirements, procedure, fee – Listing of rights issue, bonus issue, further issue – Listing conditions of BSE and NSE – Delisting	12
Unit - V	**Derivatives Markets :** Derivatives: Meaning, History & functions of derivatives market, participants in Derivative market, Legal framework of derivatives market in India with respect to equity, Currency and Commodity derivatives, Forwards and Futures contract, swaps.	12

Books Recommended:

1. Prasanna Chandra, "Investment Analysis and Portfolio management", Tata McGraw Hill, 3 rd Edn., 2008
2. Julian Walmsley, "New Financial Instruments", John Wiley & Sons, 2nd edition, Inc 1998.
3. Punithavathy Pandian, "Security Analysis and Portfolio Management", Vikas Publishing House Pvt. Ltd.
4. Prasanna Chandra, "Investment Analysis and Portfolio management", Tata McGraw Hill, 3 rd Edn., 2008

John C Hull, " Options, Futures, and Other Derivatives" , (7th Edition), , Pearson Higher Education (2010)

Part - B BCE-47

Syllabus Prescribed for 3 Years Under Graduate Programme (CBCS)

Programme: B.com. II (Management and Entrepreneurship Development) Semester - IV

Code of Subject	Title of Subject	Total no. of Period
BCE : 47	(DSC) Management Information System	45

Course Outcomes :

- Understand the fundamental concepts and principles of Management Information Systems and their role in organizational decision-making and strategic planning.
- Analyze the role of information systems in various business functions and understand their impact on organizational performance and competitiveness.
- Understand the process of information systems development and implementation, including systems analysis, design, development, and deployment.
- Understand the principles of information systems security and risk management and apply them to protect organizational assets and data.
- Identify and evaluate emerging trends and technologies in Management Information Systems and their potential impact on organizational strategies and operations.

Units	Contents	No. of Periods
Unit - I	**Introduction to Management Information Systems** Overview of MIS and its importance in organizations ;Evolution and development of MIS ;Role of MIS in decision-making and strategic planning ;Components of MIS: hardware, software, data, people, and procedures ;Emerging trends in MIS: Big Data, Business Intelligence, Cloud Computing ;Ethical and social issues in MIS	09
Unit - II	**Information Systems in Business Functions** Information systems in different functional areas of business (e.g., Marketing, Finance, Operations, Human Resources) ;Enterprise Resource Planning (ERP) systems and their integration across business functions ;Customer Relationship Management (CRM) systems and their role in sales and marketing ;Supply Chain Management (SCM) systems and their impact on logistics and operations ;Case studies and examples of successful implementation of information systems in business functions	09
Unit - III	**Information Systems Development and Implementation** Systems Development Life Cycle (SDLC) and its phases ;Methods and tools for systems analysis and design ;Software development methodologies (e.g., Waterfall, Agile) ;Implementation strategies and challenges ;Change management and user training ;Post-implementation evaluation and review	09
Unit - IV	**Information Systems Security and Risk Management** Fundamentals of information security ;Threats, vulnerabilities, and risks to information systems ;Security policies, procedures, and controls ;Security technologies (e.g., encryption, firewalls, intrusion detection systems) ;Risk management process and methodologies ;Compliance and regulatory issues (e.g., GDPR, HIPAA)	09
Unit - V	**Emerging Trends in Management Information Systems** Big Data and Analytics: concepts, technologies, and applications ;Business Intelligence and Data Warehousing ;Cloud Computing and SaaS (Software as a Service) ;Mobile and Social Media technologies ;Internet of Things (IoT) and its impact on business ;Future directions and challenges in MIS	09

Reference Books :

1. "Management Information Systems: Managing the Digital Firm" by Kenneth C. Laudon and Jane P. Laudon
2. "Essentials of MIS" by Kenneth C. Laudon and Jane P. Laudon
3. "Systems Analysis and Design" by Alan Dennis, Barbara Haley Wixom, and Roberta M. Roth
4. "Principles of Information Security" by Michael E. Whitman and Herbert J. Mattord
5. "Big Data: A Revolution That Will Transform How We Live, Work, and Think" by Viktor Mayer-Schönberger and Kenneth Cukier

Part - B BCE-47 (Practical)

Syllabus Prescribed for 3 Years Under Graduate Programme (CBCS)

Programme: B.com. II (Management and Entrepreneurship Development) Semester - IV

Code of Subject	Title of Subject	Total no. of Period
BCE : 47	(DSC) Management Information System	30

Course Outcomes :

1. Profound understanding of Management Information Systems (MIS) and their significance in organizational contexts.
2. Mastery of various functional areas where MIS are applied, including Marketing, Finance, Operations, and Human Resources.
3. Competence in the development, implementation, and evaluation of information systems within organizations.
4. Ability to identify and address security risks and compliance issues associated with information systems.
5. Awareness of emerging trends in MIS, such as Big Data analytics, Cloud Computing, and the Internet of Things (IoT).

List of practical

1.	Creating a management information system diagram using software like Microsoft Visio or Lucidchart.
2.	Analyzing and summarizing data using spreadsheet software such as Microsoft Excel or Google Sheets.
3.	Designing and implementing a database for storing business information using software like Microsoft Access or MySQL.
4.	Developing a customer relationship management (CRM) system prototype using platforms like Salesforce or Zoho CRM.
5.	Conducting a supply chain analysis using specialized SCM software like SAP or Oracle SCM Cloud.
6.	Participating in a simulated systems development lifecycle (SDLC) project using project management software like Jira or Trello.
7.	Implementing security measures for a simulated information system using tools like Nessus or Wireshark.
8.	Performing a risk assessment for a given information system using risk management software such as RiskWatch or ISO/IEC 27005.
9.	Designing and building a data dashboard for business intelligence purposes using tools like Tableau or Power BI.
10.	Exploring cloud computing services like AWS or Azure and setting up a virtual machine or storage solution.
11.	Developing a mobile application prototype for business use using platforms like Android Studio or Xcode.
12.	Analyzing social media data using social listening tools like Hootsuite or Sprout Social.
13.	Experimenting with IoT devices and sensors to collect data for business insights.
14.	Participating in online courses or webinars to stay updated on emerging MIS trends and technologies.
15.	Collaborating with peers on a group project to solve a real-world business problem using MIS concepts and tools.

Practical Marks Distribution	
Record	10 Marks
Description	10 Marks
Practical	15 Marks
Viva	05 Marks
Total	**40 Marks**