Marwadi University

FACULTY OF COMPUTER APPLICATIONS
Bachelor of Computer Applications

- **Sem.** : 5
- **Subject Code** : 05BC1501
- **Subject** : Management Information System
- **Course Objectives**:
    1. To give knowledge about organizational structure, management and Information Systems
    2. Explaining importance of ethics and concepts of DBMS
    3. Explaining concepts of KM and Decision making in organization with the use of DSS and KMS
    4. Giving knowledge about various applications at enterprise level and understanding concept if business intelligence in the organization
    5. Imparting knowledge about how to secure enterprise Information Systems
- **Prerequisites** : Basic knowledge of Information Systems

Unit No	Topics Covered	No of lectures required
1	**Organizations, Management and Role of Information systems** The Role of Information Systems in Business, Perspectives on Information Systems Business Processes and Information Systems, Types of Information Systems, The Information Systems Function in Business Organizations and Information Systems, How Information Systems Impact Organizations and Business Firms, Using Information Systems to Achieve Competitive Advantage, Using Systems for Competitive Advantage: Management Issues	12
2	**Ethical and Social Issues in Information Systems & DBMS** Property rights: intellectual property, quality of life: equity, access, and boundaries Using Databases to Improve Business Performance and Decision Making	10

	The Challenge of Big Data, Business Intelligence Infrastructure Analytical Tools: Relationships, Patterns, Trends, Using Databases to Improve Business Performance and Decision Making Managing Data Resources Establishing an Information Policy, Ensuring Data Quality	
3	**Knowledge management and Decision Making Process** Knowledge and knowledge Management System, Knowledge Management, Driving forces behind knowledge management, Key aspects of KM , Designing for business benefits from KM, Business Intelligence, Decision support system, Group decision support system Artificial Intelligence, Knowledge Based Expert System, Benefits of DSS,DSS Applications in E-enterprise	10
4	**Enterprise applications and Business Intelligence** Enterprise systems, Supply chain management systems, Customer relationship management systems E-commerce: Business and Technology What is Business Intelligence, Why is BI developed, How is BI used.	08
5	**Securing Information Systems** System Vulnerability and Abuse, Malicious Software: VIRUSES, worms, Trojan horses, and spyware ,hackers and computer crime, software vulnerability Establishing a Framework for Security and Control , Information Systems Controls , Risk Assessment , Security Policy , Disaster Recovery Planning and Business Continuity Planning , The Role of Auditing , Technologies and Tools for Protecting Information Resources , Identity Management and Authentication , Firewalls, Intrusion Detection Systems, and Antivirus Software , Securing Wireless Networks , Encryption and Public Key Infrastructure , Ensuring , System Availability , Security Issues for Cloud Computing and the Mobile Digital Platform, Ensuring Software Quality	10

Course Outcomes:

1. Students will be able to understand about organizations, management and role of Information Systems
2. Students can distinguish between the concept of Ethical and Social Issues in Information Systems & DBMS
3. Students will be able to apply and relate Knowledge Management and Decision Making Process
4. Students will be able to analyze Enterprise applications and concepts of Business Intelligence (BI).
5. Students will be able to gain the knowledge about how to secure Information Systems

Course Outcomes – Program Outcomes Mapping Table:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H						L	L
CO2	L	L					L	L
CO3	H	M	M	L	M	M	L	M
CO4	H	L	L	L	M	M	L	M
CO5		L			L	L	L	L

Text Book   :

1. Management Information System – Managing the Digital Firm , Kenneth Loudon, Jane Loudon, Pearson Education, 2014 , 13th Edition.
2. Management Information Systems – Text & Cases, Waman S. Jawadekar, Tata McGrawHill Publication , 5th Edition.

Reference Books   :

1. Management Information System, James O'Brien, George Marakas, McGraw Hill Irwin , , 10th Edition.
2. Management Information Systems – For the Information Age, Stephen Haag, Maeve Cummings, Amy Philips , McGraw-Hill Publication , 6th Edition.

3. Management Information Systems: Conceptual Foundations, Structure & Development , Davis, G/ Olson, M. , Tata McGraw Hill (TMH) Publications , 2nd editionEdition: 2nd edition
4. Robert G. Murdick, Joel E. Ross, James R. Claggett, "Information Systems for Modern Management", 3rd Edition, PHI Publication.
5. Management Information Systems , Oka M. M. , Everest Publishing House India , 14th edition

Web References :

1. **https://www.tutorialspoint.com/management_information_system/index.htm**
2. **https://www.guru99.com/mis-tutorial.html**

App References :

1. **https://play.google.com/store/apps/details?id=com.eniseistudio.mis&hl=en&gl=US**
2. **https://play.google.com/store/apps/details?id=com.eniseistudio.mis&hl=en&gl=US**

Syllabus Coverage from Text book & web/app reference:

Unit No	Chapter Numbers
Unit – 1	Book-1: Chapter - 1(1.1 , 1.2) ,2(2.1 ,2.2, 2.4) , 3
Unit – 2	Book-1:: Chapter - 4(4.3) , 6(6.3 ,6.4)
Unit – 3	Book-2 : Chapter - 7 (7.8,7.9),14(14.1,14.3,14.4,14.5,14.6)
Unit – 4	Book-1: Chapter - 9(9.1,9.2 ,9.3), 10(10.2) Book-2: Chapter - 11(11.2,11.4,11.5)
Unit – 5	Book-1: Chapter – 8(8.1,8.3,8.4)