

COURSE TITLE	MANAGEMENT INFORMATION SYSTEM
COURSE CODE	04BB1614
COURSE CREDITS	4

Course Outcomes: After completion of this course, student will be able to:

- 1 Relate the basic concepts and technologies used in the field of information systems
- 2 Identify Database Management System and its application
- 3 Comprehend types of ERP applications in organizations
- 4 Critically evaluate security challenges associated with the use of Information system
- 5 Apply the understanding of how modern information systems work together to accomplish the objectives of an organization

Pre-requisite of course:N/A

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
4	0	0	50	30	20	0	0

Contents : Unit	Topics	Contact Hours
1	Introduction to Information Systems Meaning of information system, data, information, and knowledge, merits and demerits of information system, role of IS in contemporary business, Type of information system, Transaction processing system, Office Automation system, Management Information system, Decision support system, Executive support system, Group decision support system, Geographic Information system, use of information system in decision making	12
2	Database Management System Introduction, File Management system, drawbacks in file management system, applications of database management system (finance, marketing, and healthcare), Data Architecture, DBMS, RBMS, attribute, record tuple, UML Relational database model, Logical view of data keys; Integrity rules, Relational Schemas, One to one, one to many, many to one and many to many relations	12
3	Enterprise Resource Planning and Enterprise Applications Meaning of ERP, ER Model overview; Constraints, Diagrams; ERD Issues, Codd's Rules, Atomic and Normalization (1NF, 2NF, 3NF, BCNF), ERP role in modern organization, merits and demerits and ERP, Enterprise Applications - Customer relationship management systems, supply chain management systems, Knowledge Management system and its role in modern business.	12

Contents : Unit	Topics	Contact Hours
4	Networking and Cyber Security What is network? Types of Networks, (LAN, WAN, MAN, CAN, PAN), Topologies (BUS, RING, TREE, STAR, MESH, HYBRID), , wired and wireless networks, internet and intranet, communication medium. , Cybercrime, sources of information technology vulnerabilities. Remedies for preventing unauthorised use of information technology, Ethical issues in Cyberspace, Information Security Act 2008.	12
5	Modern Information Technology Introduction to Cloud, IOT, AI, VR, AR, and Blockchain Technology, How businesses use AI, Cross Referencing Data, Consumer Behaviour Tracking and forecasting, Fraud detection, Personalization of marketing Communication, Chatbots, VR/AR applications to Business, Managing Workforce, Customer Experience Management, Online Shopping, Scope and opportunities of using VR/AR in different sectors in India	12
Total Hours		60

Textbook :

- 1 Management Information Systems: Managing the Digital Firm, Laudon, Kenneth C. and Laudon, Jane P, Pearson Education, 2018
- 2 Introduction to DBMS, Dr. Hariram Chavan Prof. Sana Shaikh, BPB Online, 2022

References:

- 1 Management Information Systems – Managing Information Technology in the Business Enterprise, Management Information Systems – Managing Information Technology in the Business Enterprise, Management Information Systems – Managing Information Technology in the Business Enterprise, Management Information Systems – Managing Information Technology in the Business Enterprise, O'Brien J, Tata McGraw Hill, 2017
- 2 Enterprise Resource Planning, Enterprise Resource Planning, Alexis Leon, McGraw Hill Education, 2019

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking / Creative
0.00	0.00	35.00	35.00	30.00	0.00

Instructional Method:

- 1 THEORY

Supplementary Resources:

- 1 NA