



# Marwadi University

## Master of Science (Information Technology)

### Semester III

**Subject Code: 02MS0302**

**Subject Name: Management Information System**

**Learning Objectives:**

- The Objective of this course is to emphasize on the application of information to business management
- It aims at providing a conceptual insight on the functions of management, importance of information, information needs at different levels, systems approach to management of information, development and implementation process of MIS
- Improving the design and usage of information systems

**Prerequisites:**

- Basic knowledge of information systems and development cycle

Unit	Course content	Hours
1	<b>Organizations, Management and Role of Information systems</b> 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	10
2	<b>Information Technology Infrastructure</b> IT Infrastructure, Infrastructure Components, Contemporary Hardware Platform Trends, Contemporary Software Platform Trends Organizing Data in a Traditional File Environment, The Database Approach to Data Management, Using Databases to Improve Business Performance and Decision Making, Managing Data Resources Communications Networks, The Global Internet, The Wireless Revolution	10
3	<b>System applications for the digital age</b> Enterprise systems, Supply chain management systems, Customer relationship management systems E-commerce and Internet, E-commerce: Business and Technology, The Mobile Digital Platform and Mobile E-commerce The Knowledge Management Landscape, Enterprise-Wide Knowledge Management Systems, Knowledge Work Systems, Intelligent Techniques Decision Making and Information Systems, Business Intelligence in the Enterprise, Business Intelligence Constituencies	12
4	<b>Building and Managing Systems</b> Systems as Planned Organizational Change, Overview of Systems Development, Alternative Systems-Building Approaches, Application Development for the Digital Firm	08



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	The Importance of Project Management, Selecting Projects, Establishing the Business Value of Information Systems, Managing Project Risk	
<b>5</b>	<b>Securing Information Systems</b> System Vulnerability and Abuse, Business Value of Security and Control, Study of Existing Frameworks for Security and Control, Technologies and Tools for Protecting Information Resources Case Study: Information Security Threats and Policies in India	<b>08</b>

<b>Text Book(s):</b>	
1. Kenneth Loudon, Jane Loudon, "Management Information System – Managing the Digital Firm", 13th Edition, Pearson Education, 2014	
<b>Reference Book(s):</b>	
1. James O'Brien, George Marakas, " Management Information System", 10th Edition, McGraw Hill Irwin	
2. Stephen Haag, Maeve Cummings, Amy Philips, "Management Information Systems – For the Information Age", 6th Edition , McGraw-Hill Publication	
3. Waman S. Jawadekar, "Management Information Systems – Text & Cases", 4th Edition, Tata McGraw Hill Publication	
4. Sanjay Mohapatra, "Cases in Management Information Systems", PHI Publication	
5. Robert G. Murdick, Joel E. Ross, James R. Claggett, "Information Systems for Modern Management", 3rd Edition, PHI Publication	
<b>Chapter wise Coverage from the main reference book(s):</b>	
<b>Chapter Wise Coverage from Text Book: Unit No.</b>	<b>Topics/Subtopics</b>
Unit – 1	Chapter - 1,2,3
Unit – 2	Chapter - 5,6
Unit – 3	Chapter - 9,10,11,12
Unit – 4	Chapter - 13,14
Unit – 5	Chapter – 8
<b>Accomplishments of the student after completing the course:</b>	
After completion of the course the student will be able to understand and appreciate the basic concepts of MIS, importance of MIS for an organization and will be able to contribute effectively in the development and implementation of MIS in different types of organizations.	