

3/3 MCA First Semester

CA5T1

MANAGEMENT INFORMATION SYSTEMS

Credits : 4

Lecture Hours : 4 periods / week

Internal assessment : 30 Marks
Semester and Examination: 70 Marks

Course Description:

The Process of Management, Information System Concepts, Functional and Other Information Systems, Enterprise Systems, System Development Process, Information System Security, Information Systems Control Techniques, Case studies.

Course Objective:

- Student will learn Frame work of MIS.
- Student will learn Types of Information which will be used in real time environment.
- Student will learn Basic functionalities of Data Base Management Systems which provides knowledge of SQL and PLSQL.
- Student will learn Networking functionalities which provides the Channeling between one network to another.
- Student will learn how the E-business works improves now days.
- Student will learn how to analyze and how the systems works.

UNIT I:

Management Information systems: A Framework: Importance of MIS, Management Information systems: A Concept, MIS: A Definition, Nature and Scope of MIS Structure and Classification of MIS: Structure of MIS, MIS Classification.

UNIT II:

Information and System Concepts: Information: A Definition, Types of Information, Information Quality, Dimensions of Information, Systems: a Definition, Kinds of Systems, System Related Concepts, Elements of a System, Human as an Information Processing System, Information system as an Enabler: Introduction, changing concepts of IS, IS as an Enabler.

UNIT III:

Basics of Computer system: A computer System, Computer Hardware Classification, Computer Software, Programming Languages Database Management: Introduction, Database Hierarchy, Files- The Traditional Approach, Databases- The Modern Approach, Database Structure, Database Management System, Types of Database Structures or Data Models, Structured Query Language (SQL), Normalisation, Advances in Database Technology.

UNIT IV:

Telecommunications and Networks: Telecommunications, Types of Signals, communication Channel, Characteristics of Communication Channels, Communications Hardware, Communication Networks, computer Networks in India, Applications of Communication

UNIT V:

E-Business and e-Commerce: Introduction, Cross- Functional Enterprise Information system, e-Commerce Decision-Making and Decision-Support Systems: Decision-Making: A Concept, Simon's Model of Decision-Making, Types of Decisions, Methods for Choosing among Alternatives, Decision-Making and MIS, Decision support Systems – Why?, Decision Support Systems: A Framework,

Characteristics and Capabilities of DSS System Development Approaches: System Development Stages, System Development Approaches

UNIT VI:

Systems Analysis and Design Systems Analysis: Introduction, Requirement Determination, Strategies for Requirement Determination, Structured Analysis Tools Systems Design, Design Objectives, conceptual Design, Design Methods, Detailed System Design

UNIT VII:

Implementation, Maintenance, Evaluation and Security of IS:

Implementation Process, Hardware and Software selection, System Maintenance, Evaluation of MIS, IS Security, Protecting Information System, IS Controls

UNIT VIII:

Information system Planning: Information System Planning, Planning Terminology, The Nolan Stage Model, The four-Stage Model of IS Planning, Selecting a Methodology, Information Resource Management (IRM), Organisation Structure and Location of MIS

Learning Resources :

Text Books:

1. Management Information Systems, Managerial Perspectives D P Goyal, Macmillan, 2/e, 2011.
2. Management Information Systems: Managing the Digital Firm, Laudon, Kenneth, PHI, 10/e.

Reference Books:

1. Management Information systems, Conceptual foundations, structure and development, Gordon B. Davis, Margrethe H. Olson, TMH, 2/e, 2001.
2. Management Information systems, James A O'Brien, George M Marakas, TMH, 7/e, 2008.
3. Management Information systems, Mahadeo Jaiswal, Monika Mital, Oxford Higher Education, 1/e, 2004.
4. Management Information systems, James A O'Brien, George M Marakas, Ramesh Behl, TMH, 9/e, 2009.
5. Management Information systems, The manager's view, Robert Schultheis, Mary sumner, TMH, 4/e, 1999.
6. Managing Information Technology, Carol V. Brown, Daniel W. DeHayes, Jeffrey A. Hoffer, Martin, E. Wainright, and William C. Perkins, PHI, 6/e, 2008.
7. Information Technology for Management: Transforming Organizations in the Digital Economy, Turban, Efraim, Ephraim McLean, and James Wetherbe, John Wiley & Sons, 2007