

**Objective:**

The course is to develop an understanding of the information technology infrastructure and Information Systems (IS) management framework of E-business. After going through the course the students will be able to identify the different components of information system and technologies and to manage them. Develop an insight as to how information systems influence business strategy. Develop the ability to contribute meaningfully towards information system selection.

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**Unit-1 System Analysis and Design**

- Data and Information, Management of Information, Attributes and Qualities of Information, Uses of Information.
- System concept, classification, element, Characteristics and types.
- Role, Attributes and Tasks of a System Analyst
- Data Flow Diagrams- Data Dictionary.
- Structured English- Decision Table- Decision Tree.
- System Development life cycle method (SDLC)
- Data Input Methods
- Designing Outputs

**Unit-2 Database Management**

- File based system, Database design concept, DBMS, Feature of DBMS, structure of DBMS Package.
- Elements of database, Database Administrator, Data types, Field properties.
- E-R model
- Working with Table, Forms, Reports and Queries
- Sorting & filtering, Import Data.
- Simple operation of queries using MySQL.

**Unit-3 Information System**

- Reasons for initiating Information system (5'Cs).
- MIS: Definitions, Benefits, functions, Characteristics, Role, Components of Information System- Three Dimension of IS.
- MIS as a pyramid, Establishing an MIS, Implementing an MIS
- MIS and Information Resources Management (IRM)
- Modules of MIS, MIS tools and Selection, Information System in Organization.
- Types of information System
- Transaction Processing System (TPS)
- Decision Support System (DSS)
- Office automation System (OAS)
- Executive Support System (ESS)
- Strategic Information System (SIS)
- Business Intelligence system (BIS)

#### **Unit-4 Enterprise System Management**

- Business Process Reengineering (BPR)
- Customer Relationship Management (CRM)
- Enterprise Resources Planning (ERP)
- Supply Chain Management (SCM)
- System Analysis and Planning (SAP)

#### **Unit-5 Enhancing & Knowledge Management**

- Geographical Information system (GIS)
- Data ware house
- Data mining
- Knowledge system and Types.
- Expert system

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#### **Books:**

- Management Information Systems, Laudon and Laudon, 7th Edition, Pearson
- Management Information Systems, Jawadekar, Tata McGraw Hill
- Management Information Systems, Murty
- Analysis and Design of Information Systems, Rajaraman, Prentice Hall
- O'Brien, James A. and George M. Marakas (2007). Management Information Systems, 7/e; New Delhi: Tata McGraw-Hill
- Laudon, Kenneth C. and Jane P. Laudon (2007). Management Information System- Managing the Digital Firm, 9/e; New Delhi: Prentice Hall
- MIS – In Knowledge Economic - P.T. Joseph & Sanjay Mohapatra – PHI

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#### **Lab:**

- SAD : Exercise
- DBMS using BASE and MySQL
- MIS Case study
- MIS information module
- MIS enterprise module
- GIS Application