

Management Information Systems

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Management Information Systems	4	3	1	0	Pass in Class XII	NIL

Learning Objectives:

This course has been designed to develop the understanding of application of the management information technology in business and industry. The course would help organizations create sustainable competitive advantage in respective industries and appreciate the significance of IT investment decisions made by organizations.

Learning Outcomes:

After completion of the course, learners will be able to:

1. Explain the significance of MIS and challenges of digital age.
2. Appreciate how technology can provide competitive advantages to the organizations.
3. Analyse the major technological issues faced by information systems professionals.
4. Describe how technology facilitates and enhances both operational and strategic decision making in an organization.
5. Prepare themselves for the key system applications and possible security threats while using information systems.

Course Contents:

Unit I: Introduction to Information System and MIS (10 hours)

Information Systems, E-Business, E-Commerce, E-communication, and E-collaboration; Introduction to Information Systems; Management Information System (MIS): Meaning and its Requisites, Challenges of Digital Age; Changing role of MIS managers; Organisation as a system.

Unit II: Information system strategies (8 hours)

Impact of information systems on Organizations; Information system strategies for dealing with competitive forces; The Internet and Organization; Ethical and Social issues in information systems.

Unit III: IT infrastructure, Decision Making Process and MIS (15 hours)

Understanding IT infrastructure and its components; Quantum computing, virtualization, cloud computing, and green computing; challenges of managing IT infrastructure. Decision-making Process;

organisational decision-making; MIS and decision-making; knowledge and knowledge management systems; Information and Knowledge Management System. .

Unit IV: Key System Applications and Security Issues (12 hours)

Information systems controls; Security issues and solutions; Enterprise systems; Supply chain management systems; Customer relationship management systems.

Note:

1. Lectures through industry cases, discussions, and presentation should be included to facilitate a continuous teaching and learning process.

2. Field study by students, solving case studies, class discussions, and end- semester examination can be the assessment methods.

Exercises :

The learners are required to:

1. Discuss the significance of MIS.
2. Discuss different information system strategies.
3. Analyse different technological issues faced by information systems professionals.
4. Discuss the role of technology in decision making process.
5. Present cases on security issues and solutions.

Suggestive Readings-

- Davis, G., & Margrethe, O. (2017). "Management Information System: Conceptual Foundations - Structure and Development" (2nd ed.). McGraw Hill Education.
- Effy, OZ. (2013). "Management information systems" (6thed.). USA: Cengage Learning.
- Goyal, D. P. (2014). "Management Information Systems: Managerial Perspectives" (4th Ed.). Vikas Publishing House Pvt Ltd.
- Jawadekar, W. S., & Dubey, S. S. (2020). "Management Information System: Text and Cases" (6th ed.). McGraw Hill Education.
- Laudon, K. C., & Laudon, J. P. (2016). "Management Information Systems: Managing the Digital Firm" (14th ed.). Pearson Education Limited.
- O'Brien, J. A., & Marakas, G. (2017). "Management information systems" (10thed.). McGraw Hill Education.

Note: Suggested readings will be updated by the Department of Commerce and uploaded on Department's website.