

Programme Name: PGDM [2021 – 2023]
Management Information Systems (IS502)
Credit: Full (2 credits)
Session Duration: 60 Minutes

TERM: II
Year: 2021-22

**Faculty: Dr. Sourabh Sharma
and Dr. Swayam S Panigrahi**

Direct/Ext. No.: 136/109
E-Mail: sourabh@imibh.edu.in
[/swayam.panigrahi@imibh.edu](mailto:swayam.panigrahi@imibh.edu.in)
[.in](mailto:swayam.panigrahi@imibh.edu.in)

Course Description:

Today, information systems have become an integral part of all business functions. Regardless of whether one is from accounting, finance, operations, marketing, human resources, information systems etc. department, the use of information systems is extensive. Infact, information systems cut across business functions and organization levels. Therefore, for organizations to survive in this competitive world need to make use of information systems.

Information systems have transformed the way organizations manage business. The whole world is making use of new emerging technologies to achieve corporate objectives. What makes MIS exciting is its evolution with continuous changes in technology, management and business processes. These innovations are enabling traditional organizations and entrepreneurs to create new products and services, develop new business models and revenue streams. In the process, some old businesses, even industries are being replaced by newer entrants. Concepts like social media, cloud computing, mobile telephony, etc., are giving rise of newer business models. Information systems and technologies are the foundation of these services.

Learning Outcomes:

- To understand the **types of information systems** that are needed to support the **various levels** of a business enterprise (LO1)
- To understand the **process of designing and developing** an information system (LO2)
- To understand the **infrastructure** needed for information system (LO3)

- To understand the role of IS in **electronic business and enterprise wide computing** (LO4)
- To develop an awareness of critical issues around information systems like **data security, privacy and ethical** use of information (LO5)
- To demonstrate managerial **problem-solving skills** using exercises, case scenarios and project (LO6)

Pedagogy:

The course will have a mix of topic presentations and discussions, case discussion and presentations, project, and hands on exercises using software packages.

Recommended Books:

- Ramesh Behl, James A. O'Brien and George M. Marakas, Management Information Systems, Eleventh Edition, McGraw Hill Education Pvt. Ltd. **(RB1)**
- Kenneth Laudon and Jane Laudon, Managing Information Systems, Twelfth Edition, Pearson Education Inc

Reference Books:

- Waman S Jawadekar, Management Information System – Text and Cases, 5th Edition, Tata McGraw Hill Publishing Company Ltd.
- Lucas Henry C., Information Technology for Management, 7th Edition, Tata Mc. Graw Hill

Course Evaluation

Component	Weight	Learning Outcomes
Quizzes	20%	Quiz 1- Learning outcomes 1,2,6,5 Quiz 2 Learning outcomes 3,4,6
Assignments	20%	Learning outcomes 6
Mid Term	30%	Learning outcomes 6
End-term	30%	Learning Outcomes 1-6
Total	100%	

Session Plan:

Session	Topic	Learning Outcomes (LO)	Readings/Cases/Exercise
1-3	Concept of Information System	LO1	Read Chapter 1 of RB1

	Introduction, Role of Information System (IS), Trends in IS, Types of IS, Components of IS.		<u>HBR Case Study: IT Does not Matter</u>
4	Alignment of IT and Business Strategy: How IT is used by companies for competitive advantage	LO2	Additional Reading: How Information gives you Competitive Advantage
5 – 6	Decision Making Decision Making Concept, Types of Decision, Pay off Analysis, MIS role in decision making concept	LO6	Read Chapter 10 of RB1 <u>Case: Universal foods & Drinks Limited (UFDL)</u>
7 – 8	Decision Support System DSS: concept and Philosophy, Types of models, MIS and the role of DSS, Business Analytics	LO6	Read Chapter 10 of RB1 <u>Exercise 1 in Computer Lab: Piedmont Trailer Manufacturing Company</u>
9 – 10	Databases, and Information Management Databases and Data Warehousing	LO5	Read Chapter 5 of RB1
11 - 12	Information Technologies Computer Hardware: End user and enterprise computing, peripherals Computer Software: Application Software, System Software, Programming Languages, Telecommunications, Networks and cloud computing	LO3	Read Chapter 3 & 4 of RB1
13 -15	Designing the MIS Infrastructure System Analysis and Design, System Development Models,	LO2	Read Chapter 12 of RB1

	agile methods, MIS Development		
16	Enterprise Management System Enterprise Resource Planning, Reengineering Business Process.	LO4	Read Chapter 8 of RB1
17 – 18	Electronic Business Technology and Securing Information Systems & IoT	LO5	Read Chapter 9 & 13 of RB1 <u>HBR Case Study: Boss, I think Someone Stole Our Customer Data</u>
19 – 20	Blockchain & Cryptocurrency	LO6	Read Chapter 11 of RB1