**Course title:** Management Information Systems  
**Course code:** PPM 171  
**No. of credits:** 3  
**L-T-P:** 42-0-0  
**Learning hours:** 42

**Pre-requisite course code and title (if any):** None

**Department:** Department of Business Sustainability  
**Course coordinator:** Dr. Umesh Gulla  
**Course instructor:** Dr. Umesh Gulla

**Course type:** Core  
**Course offered in:** Semester 2

**Course description:**

The objective of this course is to introduce the students to the Management Information Systems and its application in organizations. The course would expose the students to the managerial issues relating to information systems and help them identify and evaluate various options in Management Information Systems.

**Course objectives:**

At the end of the course, it is expected that students are able to understand the usage of Information Systems in management. The students also would understand the activities that are undertaken in acquiring an Information System in an organization. Further the student would be aware of various Information System solutions like ERP, CRM, Data warehouses and the issues in successful implementation of these technology solutions in any organization.

**Course contents**

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<tr>
<th>Module</th>
<th>Topic</th>
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<tr>
<td>1</td>
<td>Course Introduction, Pedagogy and evaluation pattern discussion followed by discussions on the Proliferation of Information Systems in Organizations. Meaning and Role of Information Systems, Constituents of MIS, Characteristics of MIS</td>
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<td>3</td>
<td>Information Systems for Strategic Management: Strategic Role of Information Systems. Integrating Information Systems with Business Strategy, Value Chain Analysis, and Strategic Information Systems Framework, Case Study.</td>
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<td>5</td>
<td>System Development Process, Approaches to System Development, System Implementation, System maintenance, Introduction to MIS Risks, System Evaluation, IT Procurement Options – Make or Buy decisions, Outsourcing as an Option for IS Procurement.</td>
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<td>6</td>
<td>Emerging Concepts and Issues in Information Systems: Enterprise Resource Planning, Supply Chain Management, Customer Relationship Management, Key issues in implementation; Case Studies.</td>
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<td>7</td>
<td>Introduction to Data Warehousing; Types of Datawarehouse; Extraction,</td>
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Transformation & Loading in Datawarehouse, Data Mining and its Applications.

8

Minor Project in MIS: This project would include the following:
- Historic Development of the industry & MIS
- Examination of Current Issues
- Study of the particular MIS, its functionalities, its impact on the organization, reason(s) for adoption of the MIS, the student’s recommendations and future directions in that MIS domain.
- References

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Total 42 0 0

Evaluation criteria:
- End term exam 40%
- Presentation 10%
- Term paper/Minor Project 10%
- Mid-term tests 30%
- Class Participation/Case Studies 10%

Learning outcomes:

Module 1:

Learning Objective: The module aims at creating interest and awareness about the proliferation of the Information Systems in today's organizations.

Learning Outcome: Students would be able to understand the usage of MIS in organizations and the constituents of the MIS.

Module 2:

Learning Objective: This would lead to understanding of categories of MIS: Operations Support System, Management Support System and Office automation system, Functional management system.

Learning Outcome: The student would understand the classifications of MIS, understanding of functional MIS and the different functionalities of these MIS. This would be followed by case study on Knowledge management.

Module 3:


Learning Outcome: This module lead to linking MIS to business strategy and the areas in which MIS would lead to strategic advantage. This would be followed by case study and guest lecture.

Module 4:

Learning Outcome: Student can assess the requirement and stage in which the organization is placed. Nolan model is expected to aid such decisions.

Module: 5


Learning Outcome: The student learns the functions and issues at each stage of system development. Further different ways in which systems can be developed are also learnt.

Module: 6

Learning Objective: Understanding of Enterprise Resource Planning, Supply Chain Management, Customer Relationship Management, Key issues in implementation; and followed by Case Studies

Learning Outcome: This module provides understanding about emerging MIS technologies like ERP, CRM, SCM and trends in enterprise applications. This would be followed by guest lecture and case studies.

Module: 7

Learning Objective: Introduction to Data Warehousing; Types of Datawarehouse; Extraction, Transformation & Loading in Datawarehouse, Data Mining and its Applications.

Learning Outcome: This leads understanding relationship between database management and datawarehouse approaches, the requirements and applications of datawarehouse.

Module: 8

Learning Objective: The student is expected to apply the learning of MIS in context of a organization and study an MIS in real organization.

Learning Outcome: The student is able to understand an MIS in real-life situation, identify the need of MIS, implementation issues in MIS in that organization and future trends in that system. Output is expected in form of a term paper.
Suggested readings:


Pedagogical approach:

The course will involve a mix of instructor led training and case studies.

Required textbooks

Additional information (if any):

Student responsibilities:
Attendance, feedback, discipline: as per university rules.

Course Review:
Mr P.S.Narayan
Ecoeye, Social and Community Initiatives, Wipro
Mr Brij Sethi
Ecoeye, Social and Community Initiatives, Wipro
Mr Rakesh Sharma
Strategy & Business Development, Philips Electronics India Limited
Mr Pawan Deep Singh
Strategy & Business Development, Philips Electronics India Limited