

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Mechanical Engineering, VIII-Semester

Open Elective ME 803(D) Management Information System

Course Objectives

After studying the course, students will be able to;

- Know about MIS, MIS Theory, Systems Approach
- Understand the concept of decision making and MIS
- Learn about conceptual system design, detailed system design
- Understand implementation, evaluation and maintenance of MIS

Unit-I

Introduction of MIS

What is MIS, Decision support systems, systems approach, The systems view of business, MIS organization within the Company. Management organizational theory and the systems approach:

Development of organizational theory, Management and organizational behavior, Management information and the systems approach.

Unit-II

Information systems for decision-making:

Evolution of an information system, Basic information systems, Decision making and MIS, MIS as technique for making programmed decisions, design assisting information systems.

Strategic and project planning for MIS

General business planning, appropriate MIS response, MIS planning-general, MIS planning-details

Unit-III

Conceptual System Design

Define the problems, Systems objectives, Establish system constraints, Determine information needs, Determine information sources, Develop alternative conceptual designs and select one, Document the system concept, Prepare the conceptual design report.

Detailed System Design

Information and involve the organization, arm of detailed design, Project management of MIS detailed design. Identify dominant and trade off criteria define the subsystems, Sketch the detailed operating MIS systems and information flows, Determine the degree of automation of each operation, inform and involve the organization again, Inputs, Outputs and processing, early system testing, Software, Hardware and tools, propose an organization to operate the system, Document the detailed design., Revisit the manager user.

Unit-IV

Implementation, Evaluation and Maintenance of the MIS

Plan the implementation, Acquire floor space and plan space layouts organized for implementation, Develop procedures for implementation, Train the operating personnel, Computer related acquisitions, Develop forms for data collection and information dissemination, Develop the files, Test the system, Cut over, Document the system, Evaluate the MIS, Control and maintain the system.

Unit-V

Pitfalls in MIS Development

Fundamental weaknesses, Soft spots in planning, Design problem, Implementation the TAR PITF.

Evaluation:

Evaluation will be continuous an integral part of the class followed by the final examination

References

1. Murdick R.G., Russ J.B., Clagget J.R., Information Systems for modern management
2. Effy OZ, Management Information Systems, 3rd edition, Thomson.
3. Jawadekar W.S., Management Information System.
4. Brien J.A.O., Irwin, Management Information Systems, McGraw Hill
5. Dour's G.B., Olson M.H., Management Information Systems, 2nd edition, McGraw Hill
6. Thireramp R.J., Decision Support Systems for Effective Planning and Control, PHI.
7. Sadagopan S., Management Information Systems, 4th edition, Prentice-Hall of India
8. Kanter J., Managing with Information, 4th edition, Prentice-Hall of India.
9. Ladon K.C., Landon, J.P., Management Information Systems, 4th edition, Prentice-Hall of India.