

GUJARAT TECHNOLOGICAL UNIVERSITY

M E (Civil) Construction Engineering and Management

M.E. Semester: IV

Subject code: 741401

Subject Name: **Management Information Systems**

Objectives:

To give knowledge of basic principles of MIS so as to make students able to develop MIS of various organizations.

| Sr. No. | Course Content |
|---------|---|
| 1. | Introduction to concepts in management information systems, role of information in decision making, effect of quality, reliability and availability of information on quality of decision. Decision making without proper information (under uncertainty) |
| 2. | Design of MIS, information needs for various kinds of management, number, level of detail and frequencies of information, choice of source for information, management information organization and routing, selective information management. |
| 3. | Structure, organization and components of integrated construction management information systems. Types of systems. Data base management systems. Nolan Stage Model – stages of information system growth. |

References Books:

1. Management Information Systems by Kanter J. - Prentice Hall of India
2. Analysis & Design of Information Systems by V. Rajaraman - Prentice Hall of India
3. Computers & Information Management by S.C. Bhatnagar and K.V. Ramani
Prentice Hall of India
4. Information Systems for Modern Management by Mardick R.G. & Others -
Prentice Hall of India