

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. SEMESTER : VIII

INDUSTRIAL ENGINEERING

Subject Name: **MANAGEMENT INFORMATION SYSTEM**

Sr. No.	Course Contents	Total Hrs
1.	Introduction: MIS Concept, Definition, Role and impact of MIS, MIS & computers, MIS and academics	4
2.	Decision making : Concepts, Methods, tools and procedures, Organizational decision making	6
3.	Information: Concept, classification, Methods of data and information collection, Organization and information	6
4.	System concepts : Concept and control, Types, Handling system complexity, post implementation problems in a system, need for systems analysis, System analysis of existing system and new requirements, System development model, Structured system analysis and design (SSAD)	8
5.	Development of MIS : Development of Long range plans, Determining information requirement, Development and Implementation, Organization for Development of MIS, Choice of Information Technology, Strategic decision, Configuration design, IT implementation plan, Phases of MISD implementation Assessing information needs, Identification and development of information sources, design and development of information flow network and cost considerations, need and design of an integrated information system for MIS, role of computers in MIS: Processing information flow, Maintaining records and generating outputs for decision making. Implementation and evaluation of MIS	10
6.	Database Management System: Concepts, Models, Data models, Database design, Conceptual and physical model, MIS and RDBMS, Realtime systems and design, Object-oriented Technology (OOT), Client-server architecture	6
7.	Applications : In manufacturing sector-Personnel management, Financial management, Production management, Materials management, Marketing management, Service sector application	8
8.	DSS: Decision support system, Artificial Intelligence system, Knowledge-based expert system, Enterprise Management System and MIS	8
9.	Case studies	8

REFERENCE/TEXT BOOKS:

1. Management Information Sstems by W.S Javadekar, Tata McGraw Hill Publishing Company, New Delhi
2. Management Information system by Ross, Murdick
3. Management Information system by Kanetkar
4. Introduction to data processing by F.R. Grawford (Tata Mcgraw hill)
5. Information systems theory & Practice by Burch and strarter
6. Operations management by Barry Shore
7. System analysis and Data processing by Menon