

GUJARAT TECHNOLOGICAL UNIVERSITY

CIVIL (CONSTRUCTION ENGINEERING AND MANAGEMENT) (14)

MANAGEMENT INFORMATION SYSTEM

SUBJECT CODE: 2741401

M.E. 4th SEMESTER

Type of course: Major elective

Prerequisite: Nil

Rationale: The course is design to provide fundamental knowledge of Management Information System.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks						Total Marks
L	T	P		Theory Marks		Practical Marks				
			ESE (E)	PA (M)	ESE (V)		PA (I)			
				ESE	OEP	PA	RP			
3	2#	0	4	70	30	30	0	10	10	150

Content:

Sr. No.	Course Content	Total Hrs	% Weightage
1	Management: Definition, functions, levels, role of different levels of management in planning, decision making and control.	6	10
2	Information: Definition, Attributes and Value of information, Types of decision and value of information, Age of information.	6	15
3	System: Definition, Description, Types of systems, Decoupling and Control of Systems, Stress in systems	6	10
4	MIS: Definition, Characteristics, Problems, Classification	6	15
5	Computer hardware and software for MIS, Database, DBMS. MIS in practice: Transaction processing systems, Information reporting systems, Decision support systems, Expert systems and Office automatic systems.	9	20
6	Project Planning, Analysis and Design of MIS: MIS as system, Software development life cycles, Feasibility study, Requirement analysis, Data flow diagram and data dictionary, Process description. Software requirement specifications, Systems design, Structures Charts, Input-output design Development - testing, implementation and maintenance of MIS.	9	30

Reference 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
- 3) Information Systems for Modern Management by Mardick R.G. & Others -Prentice Hall of India
- 4) Gordan Davis B., (1989) "Management Information Systems. Conceptually foundation, Structure and Development", McGraw Hill Book Company, International Edition.
- 5) Arora Asok, (1999) Bhatia Akshaya, "Information Systems for managers", Excel Books, New Delhi.
- 6) Sadgopan S., (1998) "Management Information Systems", Prentice Hall India Ltd., New Delhi

Course Outcome:

After learning the course the students should be able to:

Apply basic principles of MIS so as to make them able to develop MIS of various organizations.

List of Tutorials:

Assignment work is based on above subject contents.

To study the concepts of information systems and their general applications

Review Presentation (RP): The concerned faculty member shall provide the list of peer reviewed Journals and Tier-I and Tier-II Conferences relating to the subject (or relating to the area of thesis for seminar) to the students in the beginning of the semester. The same list will be uploaded on GTU website during the first two weeks of the start of the semester. Every student or a group of students shall critically study 2 papers, integrate the details and make presentation in the last two weeks of the semester. The GTU marks entry portal will allow entry of marks only after uploading of the best 3 presentations. A unique id number will be generated only after uploading the presentations. Thereafter the entry of marks will be allowed. The best 3 presentations of each college will be uploaded on GTU website.