Kadi Sarva Vishwavidyalaya
Faculty of Engineering & Technology
Third Year Bachelor of Engineering (Information Technology)
(In Effect From Academic Year 2019-20)

Subject Code: IT604G-N	Subject Title: Management Information Systems
Pre-requisite	

Teaching Scheme (Credits and Hours)

Teaching scheme				Total Credit	Evaluation Scheme					
L	T	P	Total		Theory		Mid Sem Exam	CIA	Pract.	Total
Hrs	Hrs	Hrs	Hrs		Hrs	Marks	Marks	Marks	Marks	Marks
03	00	02	05	04	03	70	30	20	30	150

Course Objective:

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

Outline of the Course:

Sr. No	Title of the Unit	Minimum Hours
1	Introduction	4
2	Decision making	6
3	Information	5
4	System concepts	7
5	Development of MIS	9
6	Database Management System	7
7	Information System Application	6
8	Enterprise System	4

Total hours (Theory): 48
Total hours (Lab): 32
Total hours: 80

Detailed Syllabus

Sr. No	Topic	Lecture Hours	Weight Age (%)
1	**Introduction:** MIS Concept, Definition, Role and impact of MIS, MIS & computers, MIS and academics	4	10
2	**Decision making:** Concepts, Methods, tools and procedures, Organizational decision making	6	10
3	**Information:** Concept, classification, Methods of data and information collection, Organization and information	5	10
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)	7	16
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	9	20
6	**Database Management System:** Concepts, Models, Data models, Database design, Conceptual and physical model, MIS and RDBMS, Real time systems and design, Object-oriented Technology (OOT), Client-server architecture	7	12
7	**Information System Application:** Transaction Processing Applications, Applications for Budgeting and Planning, Automation, Manufacturing Management System,	6	12
8	**Enterprise System:** Enterprise Resources Planning (ERP)-Features, selection criteria, merits, issues and challenges in Implementation.	4	10
	Total	48	100

Instructional Method and Pedagogy:

- At the start of course, the course delivery pattern, prerequisite of the subject will be discussed.
- Lectures will be conducted with the aid of multi-media projector, black board, OHP etc.
- Attendance is compulsory in lecture and laboratory which carries 10 marks in overall evaluation.
- One internal exam will be conducted as a part of internal theory evaluation.
- Assignments based on the course content will be given to the students for each unit and will be evaluated at regular interval evaluation.
- Surprise tests/Quizzes/Seminar/tutorial will be conducted having a share of five marks in the overall internal evaluation.
- The course includes a laboratory, where students have an opportunity to build an appreciation for the concepts being taught in lectures.
- Experiments shall be performed in the laboratory related to course contents.

Learning Outcome:

On successful completion of this course, the student should be able to:

- Understand the leadership role of Management Information Systems in achieving business competitive advantage through informed decision making.
- Analyze and synthesize business information and systems to facilitate evaluation of strategic alternatives.
- Effectively communicate strategic alternatives to facilitate decision making.
- 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.

e-Resources:

- https://www.webopedia.com/TERM/M/MIS.html
- https://en.wikipedia.org/wiki/Management_information_system
- https://www.tutorialspoint.com/management_information_system/mis_useful_resources.htm

Reference Books:

- Essentials of Management Information Systems, Author : Kenneth C. Laudon & Jane P. Laudon Publisher : Pearson Prentice-Hal
- Management Information Systems, Author : W.S Javadekar, Publisher : Tata McGraw Hill Publishing Company
- Management Information Systems - Managing the digital firm, Author : Laudon K.C, Laudon J.P, Brabston M.E, Publisher : Pearon Education
- Modern Systems Analysis and Design,Author : Jeffrey A.Hoffer, Joey F.George, Joseph S. Valachich, Publisher : Prentice Hall
- Management Information system, Author : Kanetkar

List of experiments

Sr. No.	Practical Title
1	Study of basic system concept
2	Importance of system approach
3	Study model of general information system
4	Role of management information system in organization
5	Study the characteristics of good management information system.
6	Study various levels of management information system
7	Computer and management information system.
8	Study of various information storage devices.