

VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURAT
Bachelor of Computer Application (B.C.A) 2nd Year
Syllabus

S. Y. B. C. A. Semester 4
Effective From: June-2010

Paper No.: 401

Paper Title: Information Systems

1. Introduction

- 1.1. Data & Information
- 1.2. Information Need and Benefits
- 1.3. Input, Processing , Output and Feedback
- 1.4. Manual and Computerized Information System.

2. Concepts of Systems

- 2.1. Definition of system in an organization
- 2.2. Business as a System
- 2.3. Types of Systems
 - 2.3.1. Deterministic Probabilistic Systems
 - 2.3.2. Open and Close Systems
- 2.4. Overview of Business Functions in an Organization

3. Introduction to various Information Systems

- 3.1. Business information Systems
 - 3.1.1. Transaction Processing Systems
 - 3.1.2. Work Flow Systems
 - 3.1.3. ERP
- 3.2. Management Information Systems (MIS)
 - 3.2.1. Characteristics of MIS
 - 3.2.2. Development Process of MIS
- 3.3. Decision Support Systems

4. Transaction Processing Systems

- 4.1. Overview of Transaction Processing System
- 4.2. Transaction Processing Methods & Objectives
- 4.3. Transaction Processing Activities
 - 4.3.1. Data Collection
 - 4.3.2. Data Editing
 - 4.3.3. Data correction
 - 4.3.4. Data Manipulation
 - 4.3.5. Data Storage
 - 4.3.6. Document Production and Reports
- 4.4. Traditional Transaction Processing Applications
 - 4.4.1. Order Processing Systems
 - 4.4.2. Purchase Systems
 - 4.4.3. Accounting Systems

5. Case Study (At Least Two)

Reference Books:

1. Ralf M. Stair & George W. Reynolds - Principles of information system Thomson Learning Publisher.
2. NCC – Introduction to system analysis and Design – Galgotia Publications
3. CVS Murthy – Management information Systems – Text & Applications-HPH
4. K. C. Laudan & J. P. Laudan - Management information Systems – Organization and technology – Forth Edition – Prentice Hall India.
5. W. S. Jawadekar – Management information system – Tata McGraw Hill.
6. J. Buffam – E-Business and IS Solutions – Addition Wesley.
7. Efraim Turban & Jay E. Aronson – Decision Support System and Intelligence Systems –Additional Wesley.