

**VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURAT**  
**Bachelor of Computer Application (B.C.A) 2<sup>nd</sup> Year**  
**Syllabus (As Per CBCS)**

**S. Y. B. C. A. Semester 4**  
**Effective From: June-2012**

**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

**2. Concepts of Systems**

- 2.1. Definition of system in an organization
- 2.2. Types of systems
  - 2.2.1. Deterministic probabilistic systems
  - 2.2.2. Open and close systems

**3. Introduction to various Information Systems**

- 3.1. Business information Systems
  - 3.1.1. ERP
- 3.2. Management Information Systems
  - 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
- 4.5. Case Studies Based on TPS for Railway Reservation, Online Admission Process, Hospital Management and Hotel Management.

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**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.