

VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURAT
Bachelor of Computer Application (B.C.A) 3rd Year
Syllabus

T. Y. B. C. A. - Semester 5

Effective From: June-2011

Paper No.: 503

Paper Title: **Information System Application Development**

1. **As Is Studies**

- 1.1. Concept Of Applications
- 1.2. Constraints and Limitations
- 1.3. Desired Solutions

2. **Requirement Analysis : Concept & Principles**

- 2.1. Current Application Analysis
- 2.2. Fact Finding
- 2.3. Recording Outcomes
- 2.4. System Requirement Specification
- 2.5. Specification Review

3. **Business Blue Print**

- 3.1. Flow Diagram Of Application
- 3.2. Output Design
- 3.3. Input Design
- 3.4. Freezing Business Blue Print

4. **System Design**

- 4.1. Introduction
- 4.2. Module & Sequence
- 4.3. Selection Of Platforms
- 4.4. Effective Modular Design
- 4.5. Application Resources Requirement

5. **Information Systems Development**

- 5.1. Code Design
- 5.2. Test Data Preparations
- 5.3. Module Testing

6. **Application Change Over**

- 6.1. Integrated Testing
- 6.2. Data Creation & Conversion
- 6.3. Types of Changeover
- 6.4. User Training

7. **System Documentation And Maintenance**

- 7.1. Documentation Essentials
- 7.2. Documentation Methods
- 7.3. Developer and User Manuals
- 7.4. Review & monitoring Of Execution

7.5. Application Change Management

Case studies carried out in following Topics with DFD, System Flow & Structure Chart.

Online Applications (Reservation & Online Shopping), Inventory Management, Payroll System.

Reference Books :

1. Richard Fairley : System Analysis & Design - Galgotia Publications
2. Stzinger, Jackson, Burd: System Analysis & Design in changing world
3. Prof. S. Parthasathy & Prof. B.W. Khalkar : System Analysis & Design & Introduction to S/W Engineering