

VEER NARMAD SOUTH GUJARAT UNIVERSITY

B.C.A. Semester - III

Effective from year 2010-11

Paper – 305

Software Engineering

- 1 Introduction
 - 1.1. Software, Software Characteristics, Application, Myths
 - 1.2. Software Process models Waterfall, Prototyping
 - 1.3. Software Engineering, Generic view
 - 1.4. 4GL Techniques
 - 1.5. Efforts distribution
- 2 Requirement Analysis
 - 2.1 Introduction
 - 2.2 Requirement gathering techniques
 - 2.3 DFD Data Dictionary and Process Specification
 - 2.4 Importance of Requirement Specifications
 - 2.5 Software Requirement Specification Document
- 3 System Design
 - 3.1. Design Model
 - 3.2. Principal and Concept
 - 3.3. Functional Independence
 - 3.4. Mapping of Requirement into Design
 - 3.5. Design Documentation
- 4 Software Testing
 - 4.1 Testing Fundamentals
 - 4.2 Functional and Structural Testing
 - 4.3 Testing Process

Note :Case studies may be carried out at appropriate stage of the course

Reference Books

- 1 R.S.Pressman, Software Engineering –A Practitioners' Approach Mc Graw Hill
- 2 Ricjard Fairley Software Engineering Concepts:Mc Graw Hill
- 3 Elias M.System Analysis & Dsign Galgotia Pub
- 4 Pankaj Jalota:An Integrated approach to Software Engineering-Narosa