SARDAR PATEL UNIVERSITY
Programme: BBA (Information Systems Management)
Semester: IV
Syllabus with effect from: December 2012

Paper Code: UM04CBBS02	Total Credits: 3
Title Of Paper: System Analysis Design - II	

Unit	Description in detail	Weightage (%)
1	**Designing and Fact Gathering Techniques:** Fact Gathering, Interview, Questionnaires, Record Inspection, Observation Input Design, Data Capture, Data Verification, Data validation, Basic Steps in Data Capture Output Design, Design Principle and Objectives, Types of Output and Considerations, Output Media	25 %
2	**Designing and security:** Form Design, Types, Basic Principles, Considerations and Steps File Design, Types of files, File Structure, File Organization, File Access, File Design and Database. Code Design, Principles of code design, Significant codes, Logical codes, Collating codes, Non Significant codes. System Security, Introduction, identification, Access Controls, Encryption, Audit Controls, System Integrity, Recovery/restart requirements, System failures and recovery, Disaster/Recovery Planning	25 %
3	**Data flow Diagram & System Flowchart Symbols:** DFDs and Symbols used Construction a DFD for a small system Physical and Logical DFDs Example of System including physical and logical DFD Practice of DFD	25 %
4	**Unified Modeling Language:** UML Introduction Three Aspects of UML Goal and Scope of UML History of UML UML process UML Diagrams, Use Case Diagram, Actor, Actor Instance, Use cases, Use cases Instance, Dependencies, Generalization.	25 %

Basic Text & Reference Books:

- System Analysis, Design And Introduction to Software Engineering-(SADSE)S.PARATHASARATHY BY B.W.KHALKAR, 3rd Edition
- Analysis & Design of Information Systems 2nd Edition by-James A senn (McGraw-Hill)
- Learning UML: By Sinan Si Alhir,Publisher: O'Relly
  UML in nut shall: by O'Relly