SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar
B. B. A. Information Technology Management Program
Semester – IV
UM04ABBI21 System Analysis and Design
(w.e.f. November 2019)

Total Credits: 3
Total Marks: 100

THEORY: 3 Hrs per week

Unit - 1   Introduction to SAD   25%
System and Characteristics of System, System Elements and System Concepts, Types of Systems and Integrated system, What is System Analysis?, Systems Analyst-Knowledge and Qualities and Objective, Role of Systems Analyst, Systems Approach and Systems Analysis

Unit - 2   System Development Life Cycle   25%
Introduction to Various Methodologies of Systems Development, What is SDLC?
Problem Identification, Feasibility Study, System Requirement Analysis, System Design and Implementation, Evaluation of System, Difference between System Analysis and System Design

Unit - 3   SSADM, Design Methodologies and DFD   25%
Need of SSADM and Introduction to SSADM, System Survey and Structured Analysis, Structured Design and Hardware Study, System Implementation and Maintenance, Advantages of SSADM, DFDs and Symbols used, Rules for drawing DFDs, Constructing DFD, Physical and Logical DFDs

Unit - 4   System Prototype and Fact-Gathering   25%
System Prototype (Method, Process, Feature), Fact Gathering Techniques (Interviews, Questionnaires, Record Inspection and Observation)

Evaluation: Internal: 40 Marks
                     External: 60 Marks (Two – Hours Examination)

References Books:
1. **Prof. S. ParthaSarathy, Prof. B. W. Khalkar**, "System Analysis, Design And Introduction to Software Engineering (SADSE)", 9th Ed.
2. **James A. Senn**: "Analysis & Design of Information System", 2nd Ed., McGraw-Hill Int.