SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2022-2023

Bachelor of Business Administration
B.B.A (ITM) Semester-IV

Course Code	UM04ABBI71	Title of the Course	System Analysis and Design
Total Credits of the Course	03	Hours per Week	03

Course Objectives:	1. To determine specific needs of system
	2. Discuss approaches and tasks of system
	3. Evaluate tools and techniques.
	4. Use appropriate methods and techniques to design system

Course Content		
Unit	Description	Weightage*(%)
1.	**Introduction to System Analysis and Design** System and Characteristic of System, 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	25%
2.	**System Development Life Cycle** 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	25%
3.	**SSADM, Design Methodologies and DFD** 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	25%
4.	**System Prototype and Fact Finding(Gathering)** System Prototype (Method, Process, Feature), Fact Gathering Techniques (Interviews, Questionnaires, Record Inspection and Observation)	25%

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Teaching-Learning Methodology	ICT Based Teaching Learning Methodology

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / MCQ (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quiz, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	understanding the life cycle of a systems development project
2.	An understanding of the analysis and development techniques required as a team member

Suggested References:	
Sr. No.	References
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.

On-line resources to be used if available as references material:
On-line resources:

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