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 (ISM) Semester-IV

Course Code	UM04CBBS72	Title of the Course	**System Analysis And Design - II**
Total Credits of the Course	03	Hours per Week	03 Hours

Course Objectives:	Students come to know about:
	➢ Provides overview of the system development life cycle (SDLC) emphasizing analytical techniques to develop the correct definition of business problems and user requirements for system analysis and design purpose.

Course Content		
Unit	Description	Weight age* (%)
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	25 %

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	• Construction a DFD for a small system • Physical and Logical DFDs • Example of System including physical and logical DFD • Practice of DFD	
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 %
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Teaching- Learning Methodology	➢ White Board ➢ Presentation ➢ Video ➢ Case Study

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weight age
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, 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.	Students will be required to develop and present a Requirements Definition Proposal for a new system in a well-structured business proposal.
2.	A firm basis for understanding the life cycle of a systems development project.
3.	. An understanding of the analysis and development techniques required as a team

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	member of a medium-scale information systems development project.
4.	Experience in developing information systems models.
5.	Experience in developing systems project documentation.

Suggested References:	
Sr. No.	References
1.	System Anylsis,Design And Introduction to Software Engineering-(SADSE)S.PARATHASARATHY BY B.W.KHALKAR,3rd Edition
2.	Analysis & Design of Information Systems 2nd Edition by-James A senn (McGraw-Hill)

On-line resources to be used if available as reference material
On-line Resources
1.http://www.uoitc.edu.iq/images/documents/informatics-institute/Competitive_exam/Systemanalysisanddesign.pdf
2.https://www.zu.edu.jo/UploadFile/Library/E_Books/Files/LibraryFile_12159_26.pdf

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