

SARDAR PATEL UNIVERSITY
BBA (ISM) (3 Years) Semester - 4
Syllabus with Effect from: 2019-20
UM04CBBS22 SYSTEM ANYLSIS AND DESIGN - II

Theory: 100 Marks

Credit: 3

Unit 1	Designing and Fact Gathering Techniques <ul style="list-style-type: none"> ➤ 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%
Unit 2	Designing and security <ul style="list-style-type: none"> ➤ 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%
Unit 3	Data flow Diagram & System Flowchart Symbols <ul style="list-style-type: none"> ➤ 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%
Unit 4	Unified Modeling Language <ul style="list-style-type: none"> ➤ UML Introduction ➤ Three Aspects of UML ➤ Goal and Scope of UML ➤ History of UML ➤ UML process ➤ UML Diagrams <p>-Use Case Diagram – Actor – Actor Instance – Use cases - Use cases Instance – Dependencies – Generalization.</p>	25%

Reference Book:

- System Anylsis, 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

Evaluation: Internal (Theory) = 40 Marks

External (Theory) = 60 Marks