Database System Concepts (First Edition: 2008)
Publisher: Cengage Learning
By Peter Rob and Carlos Coronel

Chapter-10 (10.1, 10.2, 10.3, 10.4, 10.5, 10.6)
Chapter-12 (12.1, 12.3, 12.6, 12.7, 12.8, 12.9, and 12.10)
Chapter-7 (7.1, 7.2 (7.2.4, 7.2.5, 7.2.6, 7.2.7) 7.3, 7.4, 7.5, 7.6.3) Excluding (7.1.1, 7.1.2, 7.2.3)
Chapter-8 (8.1, 8.2, 8.3, 8.4, 8.5)

REFERENCE BOOKS:

1. Introduction to Database Management Systems (First Edition 2006)
   Publisher: Tata McGraw-Hill
   By ISRD Group

2. An Introduction to Database Systems (Eighth Edition 2006)
   Publisher : Pearson
   By C. J. Date, A. Kannan & S. Swamynathan

3. An Introduction to Database Systems
   Publisher: Pearson
   By ITL Education Solutions Limited

WEB RESOURCES:

https://www.techonthenet.com/oracle/
http://www.way2tutorial.com/sql/oracle_sql_introduction_type_of_sql_statement.php
https://docs.oracle.com/cd/B19306_01/server.102/b14200/

COURSE TITLE	System Analysis, QA and Testing
COURSE CODE	CC-209
COURSE CREDIT	3
Session Per Week	3
Total Teaching Hours	40 HOURS

AIM

To develop the skill about System Analysis, Quality Assurance and types of Testing Methods
To make the students able to design CD,DFD, UML Diagrams and test the existing systems.

LEARNING OUTCOMES

On the completion of the course students will:
1.Understand different models and draw data flow diagrams
3.Understand the basic android terminology and technology
4.Learn how to draw uml diagrams
5.To understand the basic terminologies and types of testing

DETAIL SYLLABUS

UNIT	TOPIC / SUB TOPIC	TEACHING HOURS
	SYSTEM ANALYSIS AND DESIGN	10
1	Software Development Models o Waterfall Model o The Incremental Model o The Spiral Model	4
	Requirement Modeling / Fact-finding techniques Interview Document review Observation Questionnaires and surveys Overview Feasibility Study Operational , Technical , Economic , Schedule Feasibility Data Flow Diagram: Concepts, Symbols, Rules, Construction of CD and DFD	6

2	**Object Oriented Analysis**		**10**
	The Constituents of OOAD: o Objects and Classes o Links and Association o Generalization and Specialization o Aggregation and Composition o Coupling and Cohesion o Components o Interfaces		**4**
	UML DIAGRAMS Use-Case Diagram: Benefits of Use-Case Diagram o Actors, Use-Cases , Relationship between Actor and Use Case Sequence Diagram: Elements of Sequence Diagram: Life Lines, Messages, Activation, Guards, Combined Fragments, Objects		**6**
3	**UML DIAGRAMS**		**10**
	Activity Diagram: Elements of Activity Diagram: Initial State, Final State Action / Activity Transitions , Decision Synchronization, Fork and Join Swim lanes, Object and Object Flow Class Diagram: o Elements of Class Diagram:		**6**
	User Interfaces and Layouts o Viewgroups o Built-in Layout classes o FrameLayout, LinearLayout, RelativeLayout,TableLayout, GridLayout o Multiple Layouts on a screen		**4**
4	**QA and TESTING**		**10**
	Quality, Quality Assurance and Quality Control White Box Testing Black Box Testing Integration Testing		**6**
	QA and TESTING System and Acceptance Testing Performance Testing Regression Testing Test Metrics and Measurements		**4**