

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/



GUJARAT UNIVERSITY

BCA SEM-IV SYLLABUS

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
	Software Development Models o Waterfall Model o The Incremental Model o The Spiral Model	4
1	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

	Object Oriented Analysis	10
2	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
	UML DIAGRAMS	10
3	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
	QA and TESTING	10
4	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