

Syllabus

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1 System Analysis and Design

1.1 Jyoti Verma

1.1.1 System concepts & Information system environment:

- ☐ System Concepts
- ☐ Definition
- ☐ Characteristics of a system
- ☐ Elements of Systems
- ☐ Introduction to systems analysis and design
- ☐ System analysis
- ☐ System Design
- ☐ System Development Life Cycle

1.1.2 System Planning And Investigation

- ☐ Where does the system analyst come from?
- ☐ What does he do?
- ☐ Preparing for case as a system analyst
- ☐ Technical Skills
- ☐ Communication Skills
- ☐ Role of System Analyst
- ☐ Change agent
- ☐ Investigation and monitor
- ☐ Psychologist
- ☐ Sales person
- ☐ Motivator
- ☐ Politician plan of the system analyst
- ☐ Position in the MIS organisation

1.1.3 File organisation

1.1.4 System Testing

- ☐ System testing conversion
- ☐ Combating resistance to change
- ☐ past implementation
- ☐ Review
- ☐ Software maintenance
- ☐ Hardware/Software selection
- ☐ Security disaster / Recovery
- ☐ Ethics in System Development

1.2 Khushbu Panchal

- ☐ Feasibility Study
- ☐ Types of Analysis
- ☐ Constbenifit Analysis
- ☐ The Process And Stages of System Design
- ☐ System Design
- ☐ HIPO and IPO Charts
- ☐ Tools of Structured Analysis

2 Programming In Java

2.1 Ruchita Tailor (Herbert Schildt except Java applet)

- ☐ Chapter 3 : Data Types, Variables, and Arrays
- ☐ Chapter 5 : Control Statement
- ☐ Chapter 7 : A closer Look at Methods and Classes
- ☐ Chapter 8 : Inheritance

- ☐ Chapter 9 : Packages and Interfaces
- ☐ Java Applets PDF

3 Rational Database and Management Systems

3.1 Ruchita Tailor

- ☐ Unit 1 : Introduction To RDBMS
- ☐ Unit 2 : Data Architecture
- ☐ Unit 3 : Data Models
- ☐ Normalization
- ☐ Chap 7 : Relational Data Model
- ☐ Chap 8 : Relational Algebra
- ☐ Chap 9 : Functional Dependency

3.2 Khushbu Panchal

- ☐ SQL Operators
- ☐ Definitions
- ☐ Functions
- ☐ Grant and Revoke
- ☐ Index
- ☐ Joins
- ☐ Relational Algebra
- ☐ Oracle Basic Query
- ☐ View

4 Computer Networks

4.1 Ruchita Tailor

- ☐ Network Security
- ☐ Cryptography
- ☐ DNS

4.2 Khushbu Panchal

- ☐ Network Interface Card (NIC)
- ☐ Software for network

4.3 Jyoti Verma

- N/A

5 Fundamentals Of Operating System

5.1 Ruchita Tailor

- ☐ Unit 1 : Introduction to OS
- ☐ Unit 2 : Process Management And Threads
- ☐ Unit 3 : IPC (Inter Process Communication)
- ☐ Memory Management
- ☐ File Management