**CONTENT**

1. Introduction to Systems Analysis and Design

1.1. The Systems Development Life Cycle

1.2. Systems Development Methodologies

1.3. Typical Systems Analyst Roles and Skills

1.4. The Unified Modeling Language

2. Project Management

2.1. Project Identification

2.2. Feasibility Analysis

2.3. Project Effort Estimation

3. Requirements Determination

3.1. Requirements Determination

3.2. Requirements Analysis Strategies

3.3. Requirements-Gathering Techniques

4-5 Business Process Modelling

4.1. Business Process Identification with Use-Case Diagrams

4.2. Business Process Modeling with Activity Diagrams

4.3. Business process realization with sequence diagram

5-6 System Design

5.1. Verifying and Validating the Analysis Models

5.2. Evolving the Analysis Models into Design Models

5.3. Packages and Package Diagrams

5.4. Object Identification

5.5. Class Diagrams

7. Data Base Design

7.1. Designing Data Access and Manipulation Classes

7.2. Nonfunctional Requirements and Data Management Layer Design

8. User Interface Design

8.1. Principles for User Interface Design

8.2. User Interface Design Process

8.3. Navigation Design

9-10. Architecture

9.1. Elements of the Physical Architecture Layer

9.2. Infrastructure Design

9.3. Hardware and System

11. Software Specifications

12. Development

12.1. Managing Programming

12.2. Designing Tests

12.3. Developing Documentation

13. Installation

13.1. Cultural Issues and Information Technology Adoption

13.2. Conversion

13.3. Change Management

14. Kisi-kisi Ujian dan Tugas

**TARGET AUDIENCE**

1. IT Project Manager
2. IT Manager
3. *System Analyst*
4. *Business Analyst*
5. Programmer