

# UNIT-3: Software Design - PYQ ANALYSIS

## Repeated Questions

Question	2022	2023	2024	2025	Frequency
UML Modeling	✗	✗	✓	✗	1
Function Oriented Design	✗	✓	✓	✗	2
Object Oriented vs Function Oriented	✗	✓	✓	✗	2
Design Principles	✓	✓	✗	✓	3
Architectural Styles	✓	✗	✓	✓	3
Architectural Views	✓	✗	✗	✓	2
Design Metrics	✗	✓	✗	✓	2
SA/SD	✗	✗	Short Note	✓	2
Component Based Design	✗	✓	Short Note	✗	2

## Most Important for 2026

★★★★★ UML Diagrams

★★★★★ Architectural Styles

★★★★★ Design Principles

★★★★★ Design Metrics

★★★★★ SA/SD

## **UNIT-3 : Software Design**

### **June 2025**

1. Describe any four fundamental Software Design Principles.
2. Explain SA/SD approach to Function-Oriented Design.
3. What are Architectural Views?
4. Briefly describe different Architectural Styles.
5. Key Design Metrics used to evaluate Software Design Quality.

### **Dec 2024**

1. Differentiate Function-Oriented and Object-Oriented Development.
2. How is System Modeling achieved using UML?
3. What is Function-Oriented Design?
4. Different Architecture Styles and Patterns.

### **June 2024**

1. Pattern Based Software Design.
2. Function-Oriented Design.
3. Golden Rules of User Interface Design.

### **Nov 2023**

1. Difference between Function-Oriented and Object-Oriented Modeling.
2. Design Metrics and their importance.
3. Function-Oriented Design Strategies.

## **June 2023**

1. Basic Principles of Software Design.
2. SA and SD.
3. Component Based Design and its advantages.
4. Object Models.

## **Nov 2022**

1. Design Concepts and Principles.
2. Architecture and Architecture Styles.
3. Multiple Concurrent Views of Architecture.

## **June 2022**

1. Software Modeling and Model Views.
2. Object-Oriented Design and Metrics.
3. Interface Analysis and Design Model.