

object oriented software engineering

unit - 1

essays

1. explain about software engineering.
2. explain about object oriented programming concepts
3. explain about unified modeling language.
4. explain about software development life cycle process.

Shorts

1. define software requirements
2. explain advantages of SE.
3. define role of SE.
4. explain advantages of UML.
5. define Waterfall model.
6. define increment model.

Unit -2

Essays

1. explain object oriented analysis and design
2. explain requirement analysis and specification(SRS)
3. explain about uml techniques in class diagram and sequence diagram.
4. explain different design pattern.

Shorts

1. define usecase scenario
2. explain different applications of ooad.
3. define aggregation and composition.
4. define statemachine diagram.
5. define usecase diagram.

unit – 3

Essays

1. explain about software construction.
2. explain about object oriented design principles.
3. explain about different types of software testings.
4. explain about testing driven development.

Shorts

1. define object oriented programming languages(c,java and python)
2. explain unit testing.
3. explain integration testing.
4. define different testing strategies.
5. define white box testing(structural testing)

6. define blackbox testing(behavior testing)

unit – 4

essays

1. explain about Software maintenance.
2. explain about refactoring techniques Software version control.
3. explain about re-engineering.
4. explain about code review.

Shots

1. define code inspection.
2. define software evolution.
3. define software reverse engineering.
4. define software maintainance stratagies.

unit – 5

essays

1. explain about Agile software development and Scrum methodologies.
2. explain about Model-driven engineering (MDE).
3. explain about Component-based software engineering (CBSE).

Shorts

1. define Serviceoriented architecture (SOA).
2. explain Advantages and disadvantages of Model-driven engineering
3. define Aspect-oriented programming (AOP).
4. define key applications of Aspect-oriented programming (AOP).
4. explain Advantages and disadvantages of Aspect-oriented programming (AOP).