



Course Content

Object Oriented Design patterns

Duration: 3 Days

COURSE NAME

GOF Design patterns

DURATION

3 Days

COURSE OUTLINE

Day-1

- Encapsulation
- Abstraction
- Objects
- Classes
- Responsibilities
- Attributes
- Composite Classes
- Operations and Methods
- Visibility
- Inheritance
- Polymorphism
- Use Case Diagrams
- Class Diagrams
- Object Diagrams
- Case study -1 to cover above patterns
- Sequence Diagrams
- Communication Diagrams
- Deployment Diagrams
- Cohesion
- Coupling
- Open Close Principle
- Case study on the above pattern
- Dependency Inversion Principle
- Use Case-1
- Interface Segregation Principle
- Use Case-2
- Single Responsibility Principle
- Use Case-3
- Liskov's Substitution Principle
- Use Case-4

Day-2

- Design Patterns - Overview
- Design Patterns - Factory Pattern
- Abstract Factory Pattern
- Design Patterns - Singleton Pattern
- Design Patterns - Builder Pattern
- Case study on the above pattern
- Design Patterns - Prototype Pattern
- Design Patterns - Adapter Pattern
- Design Patterns - Bridge Pattern
- Design Patterns - Filter Pattern
- Case study on the above pattern
- Design Patterns - Composite Pattern
- Design Patterns - Decorator Pattern
- Design Patterns - Facade Pattern
- Case study on the above pattern
- Design Patterns - Flyweight Pattern
- Design Patterns - Proxy Pattern
- Chain of Responsibility Pattern
- Design Patterns - Command Pattern
- Design Patterns - Interpreter Pattern
- Case study on the above pattern
- Design Patterns - Iterator Pattern
- Design Patterns - Mediator Pattern
- Design Patterns - Memento Pattern
- Design Patterns - Observer Pattern
- Design Patterns - State Pattern
- Case study on the above pattern

Day-3

- Design Patterns - Null Object Pattern
- Design Patterns - Strategy Pattern
- Design Patterns - Template Pattern
- Design Patterns - Visitor Pattern
- Case study on the above pattern
- Design Patterns - MVC Pattern
- Business Delegate Pattern
- Composite Entity Pattern
- Data Access Object Pattern
- Front Controller Pattern

- Case study on the above pattern
- Intercepting Filter Pattern
- Service Locator Pattern
- Transfer Object Pattern
- MVC pattern
- Layered Pattern
- Front Controller
- Case study on the above pattern
- Application Controller
- Intercepting Filter
- Composite View
- View Helper
- Service to Worker
- Case study on the above pattern