

Spring Overview:

- **Introduction to Spring**
- What is Spring
- How Spring fits into the Enterprise world
- Spring Modules

Spring Core (Basic Concepts) Theory/Practical

- What is a Core Container
- Introduction to IOC
- Types of DI
- Setter VS Constructor
- Resolving Constructor Confusion
- Collection DI
- Bean Inheritance
- Collection Merging
- Inner Beans
- Using IDRef
- Bean Aliasing
- Bean Scopes
- Inner Beans
- Null String
- Bean Auto wiring
- Nested Bean Factories

Spring Core (Advanced Concepts) Theory/Practical

- P - Namespace
- Dependency Check
- Depends On
- Factory Beans
- Static Factory Method
- Instance Factory Method
- Aware Interfaces
- Bean Lifecycle
- Method Replacement
- Lookup Method Injection
- Property Editors
- Bean Factory Postproces

Spring Core (3.0Annotations)

- **Theory/Practical**
- Spring VS Java Config Project annotations
- Required
- Autowire
- PostConstruct
- PreDestroy
- Qualifier
- Resource
- Component
- Service
- Controller
- Named

- Various Annotation based Post Processors
- (AutowiredAnnotationBeanPostProcess or,
or,
CommonAnnotationBeanPostProcessor
,
- PersistenceAnnotationBeanPostProcess or,
➤ RequiredAnnotationBeanPostProcessor
)

Spring AOP Theory/Practical

- AOP Concepts
- Programmatic VS Declarative AOP
- Programmatic AOP
- Types of Advices
- Types of Pointcuts
- Working with proxies
- Using AOP 2.0 Config element
- OGNL Expressions
- Aspect J AOP

Spring Tx Theory/Practical

- Aop 2.0 Configuration driven
Transaction Management
- Aspect J annotation based Transaction
Management

Spring JDBC Theory/Practical

- What is DAO pattern?
- Ways to implement Spring DAO
- Choosing an approach for
JDBC database access
- JDBC Template
- Executing Statements
- Running Queries
- SQL Parameters

Spring MVC Theory/Practical

- Spring 3.0 features
- Introduction to Spring MVC
- Handler Mapping
- Controllers
- Validations
- Handler Interceptors
- Views
- Form tags

Spring ORM Spring Integration with ORM

- Integrating with Hibernate
- Creating and Injecting
Hibernate Session Factory
- Managing Transaction