

Cloud Cave Technologies

Spring Framework – Syllabus

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S.NO	Topics Detailed	Content
1	Introduction to Spring	i. What is Spring ii. How Spring fits into the Enterprise world iii. Spring Modules
2	Spring Core (Basic Concepts)	Theory/Practical i. What is a Core Container ii. Introduction to IOC iii. Types of DI iv. Setter VS Constructor v. Resolving Constructor Confusion vi. Collection DI vii. Bean Inheritance viii. Collection Merging ix. Inner Beans x. Using IDRef xi. Bean Aliasing xii. Bean Scopes xiii. Inner Beans xiv. Null String xv. Bean Auto wiring xvi. Nested Bean Factories
3	Spring Core (Advanced Concepts)	Theory/Practical i. P – Namespace ii. Dependency Check iii. Depends On iv. Factory Beans v. Static Factory Method vi. Instance Factory Method vii. Aware Interfaces viii. Bean Lifecycle ix. Method Replacement x. Lookup Method Injection xi. Property Editors xii. Bean Factory Postproces
4	Spring Core (Annotations)	Theory/Practical i. Spring VS Java Config Project annotations ii. @Required iii. @Autowire iv. @PostConstruct v. @PreDestroy vi. @Qualifier

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		vii. @Resource viii. @Component ix. @Service x. @Controller xi. @Named xii. Various Annotation based Post Processors (AutowiredAnnotationBeanPostProcessor, CommonAnnotationBeanPostProcessor, PersistenceAnnotationBeanPostProcessor, RequiredAnnotationBeanPostProcessor)
5	Spring AOP	Theory/Practical a. AOP Concepts b. Programmatic VS Declarative AOP c. Programmatic AOP i. Types of Advices ii. Types of Pointcuts iii. Working with proxies d. Declarative AOP i. Using AOP 2.0 Config element ii. OGNL Expressions e. Aspect J AOP
6	Spring Tx	Theory/Practical i. Aop Configuration driven Transaction Management ii. Aspect J annotation based Transaction Management
7	Spring JDBC	Theory/Practical i. What is DAO pattern? ii. Ways to implement Spring DAO iii. Choosing an approach for JDBC database access iv. JDBC Template v. Executing Statements vi. Running Queries vii. SQL Parameters
8	Spring MVC	Theory/Practical i. Spring features ii. Introduction to Spring MVC iii. Handler Mapping iv. Controllers v. Validations vi. Handler Interceptors vii. Views viii. Form tags

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9	Spring ORM	i. Spring Integration with ORM ii. Integrating with Hibernate iii. Creating and Injecting Hibernate Session Factory iv. Managing Transaction
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