JAVA SYLLABUS

Sr.No.	Introduction to java programming	Days	Signature
	Features of java	1-Days	
	The java virtual machine, Data types, literals, variables, type conversion, casting		
	Java tokens- comments, identifiers, keywords, separators		
	Operators and control statements, Conditional and looping constructs, Block and types of blocks, Declarations, invocations and executions	1-Days	
	Static members and their execution, Arrays		
	Object-oriented programming with java classe and object		
	Features of oop's		
	Encapsulation	1 Day	
	Polymorphism		
	Inheritence		

	Abstration		
	Classe and object		
	Introduction to class and object	1 Day	
	Fields and methods		
	Constructor and types of constructors		
	Overloading methods		
	Garbage collection		
	Inner Classes		
	Inheritance		
	Overriding methods	2 Day	
	Polymorphism		
	Making methods and classes final		
	Abstract classes and methods		
	Interfaces		
	Java api and project		
	String handling	1 Day	
	Exception handling and assertions		

	Multithreading	1 Day	
	Io streams (file io)	1 day	
	Collections with generics	2 Day	
	Formatting date, time (java.text package)	1 Day	
	Advanced java		
	Jdbc 4.0		
	Introduction to jdbc	1 Day	
	Jdbc architecture		
	Connection, statement, resultset		
	Prepared statement	2 Days	
	Callable statement		
	Scrollable and updatable resultset		
	Four levels of jdbc drivers, their pros & cons		
	Servlets		
	Need of server side programming	1 Day	
	Introduction to servlets		

	Servlet life cycle		
	Servletconfig, servletcontext, servletresponse, Supplying initialization parameters to servlets		
	Include and forward mechanisms	1 Day	
	Http request methods get vs post		
	Httpservletrequest, httpservletresponse		
	Dealing with http headers & error codes		
	Session tracking, purpose	1 Day	
	Hidden form fields, cookies		
	Http session, url rewriting		
	Event listeners	1 Day	
	Web application security		
	Jsp 2.2		
	Disadvantages of servlets	1 Day	
	Introduction to jsp		
	Jsp life cycle		
	Creating dynamic web content with jsp		
	Scripting elements		

	Scriptlet		
	Declaration		
	Expression		
	Jsp directives page, include and taglib	1 Day	
	Jsp implicit objects		
	Jsp scopes		
	Include and forward mechanism		
	Using a java bean in a jsp	1 Day	
	Custom tag development		
	Classic tags, simple tags		
	Error handling in a jsp		
	Jstl	1 Day	
	Expression language	1 Day	
	Hibernate		
	Hibernate introduction	2 Day	
	Hibernate architecture		
	Understanding first hibernate application		
	Hibernate in eclipse	2 day	
	Hibernate with annotation	2 Day	

	Hibernate web application		
	Inheritance mapping		
	Table per hierarchy	2 Day	
	Table per hierarchy using annotation		
	Table per concrete		
	Table per concrete using annotation		
	Table per subclass		
	Table per subclass using annotation		
	Collection mapping		
	Mapping list	1 Day	
	One-to-many, many to many by list using xml		
	One to many by list using annotation		
	Mapping bag		
	One-to-many by bag		
	Mapping set		
	One-to-many by set	2 Day	
	Mapping map		

	Many-to-many by map		
	Bidirectional		
	Lazy collection		
	Component mapping		
	Hibernate caching		
	First level cache	1 Day	
	Secondlevel cache		
	Integration		
	Hibernate and struts	1 Day	
	Hibernate and spring	1 Day	
	Transaction management		
	Querying with HQL (Hibernate query language)	1 Day	
	HCQL	1 Day	
	Named query	1 Day	
	Spring framework		

	Introduction to spring 3.0	2 Day	
	Steps to use spring framework in applications		
	Understanding ioc and dependency injection		
	Understanding the bean life-cycle – auto wiring and bean scopes		
	Annotation-based dependency injection	2 Day	
	Adding behavior to an application using aspects – aop		
	Creating and applying aspects		
	Introducing data access with spring – jdbc through spring	2 Day	
	Transactions in a spring environment		
	Getting started with hibernate in a spring environment		
	Working with spring mvc	1 Day	
	Spring mvc form handling	2 Day	
	Creating views in spring mvc		

NOTE:- We Provide Web Hosting Facility.