**Syllabus for Full Stack Java**

**Core Java Syllabus:**

Create object-oriented Java applications

Implement operators

Work with conditional and loop constructs

Work with arrays, Enums, and strings

Implement inheritance and polymorphism

Handle errors

Design a user interface

Handle events

Implement inner classes and type casting

Work with regular expressions and localization

Work with generics and collections

Work with threads

Implement thread synchronization and concurrency

Work with streams, classes, and interfaces

Create applications using advanced features of JDBC

**Adv Java Syllabus:**

Understand the Web and the Web application architecture

Understand Servlets

Implement the request dispatcher mechanism

Work with filters

Implement different types of session management techniques

Describe server clusters and session migration

Understand the JSP technology

Use the JSTL tags and EL in Web applications

Create and use the custom tags

Implement MVC using the Struts framework

Use the JDBC API as a database access tool

**Spring Syllabus:**

Lesson1-Introduction of Spring & Explanation

Lesson2-One page to another page using spring, Spring MVC

Lesson3-Using XML File How to retrieve Data into JSP page through Servlet using Spring

 Using Spring How to use Request Dispatcher one page to another page transformation

Lesson 4-using Spring How to use get session & Set Session bean component

Lesson5-Spring Database Connectivity

**Hibernate Syllabus:**

Lesson1-Introduction of Hibernate & Explanation

Lesson2-One page to another page using Hibernate,Hybernet MVC

Lesson3-Using XML File How to retrieve Data into JSP page through Servlet using Hibernate

 Using Hibernate How to use Request Dispatcher one page to another page transformation

Lesson 4-using Hibernate How to use get session & Set Session bean component

**HTML5 Syllabus:**

Create and format Web pages & Web sites

Create tables, forms, and other Web page components using HTML

Create a cascading style sheet

Write JavaScript programs

Transform and animate canvas elements

Add visual effects using jQuery

**CSS Syllabus:**

Lesson 1: Introduction to CSS: Why Use CSS?

Lesson 2: CSS Syntax

Lesson 3: HTML 5 and CSS

Lesson 4: Set Up Web Pages with CSS

Lesson 5: Styling Text, Font, and Properties

Lesson 6: Styling Page Backgrounds

Lesson 7: Styling Lists in CSS

Lesson 8: Using CSS Classes and IDs

Lesson 9: Using Borders and Height and Width CSS Properties

Lesson 10: CSS Pseudo Elements

Lesson 11: Positioning Elements

Lesson 12: Validating CSS and HTML

**JavaScript Syllabus:**

Lesson1- Java Script Output & Statements

Lesson2-JavaScript Syntax & Comments

Lesson3-Javascript Variable & Operators

Lesson4-Javascript Functions & String Methods& Condition & Comparison & Switch

Lesson5-JavaScript Loop for & while & Type conversion & Break

Lesson6-JavaScript JSON