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Java Full Stack Development

(100% Unlimited Placement Call & Support)

Course Syllabus & Counseling Video

Contact: 9175444433/ 9049361265

Placement Record: https://techhubindia.org/placement

Java Full Stack Development

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Purpose of Course

1. Building programming logics
2. To make student industry ready as Java developer
3. Change student behaviour and thought process by soft skill
4. To nurture hardworking & smart working skill by regular practice & live Projects
5. Improve logical thinking by aptitude & logical reasoning

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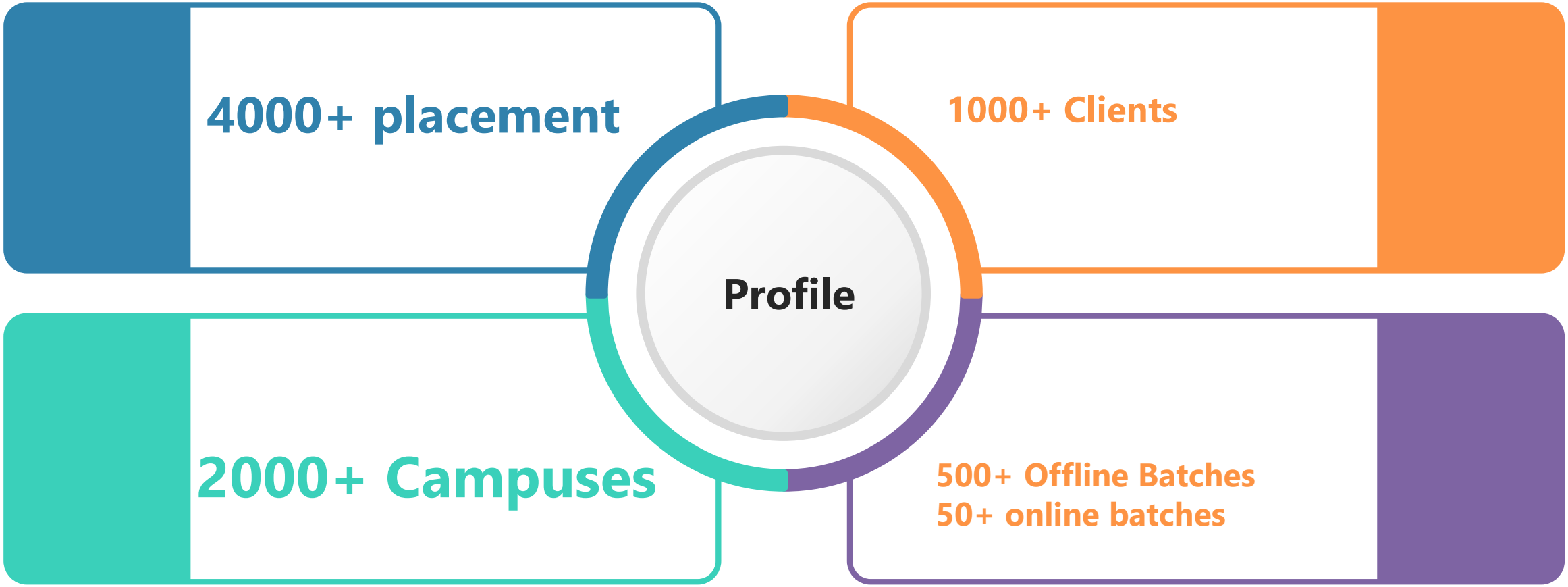
About GIRI'S TECH HUH



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Admission Process

1. **Entrance exam on following Dates:**
   20th & 30th of every month (**online & offline mode**)

2. **Preferred Qualification:**
   a. Engineering with any stream
   b. MCA/MSC /BCA/BCS

3. **Batch Start Date 5th of every month**

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Test & Mock Schedule & Policy

1. **Every Month has 1 mock interview**
   Process of Mock
   a) aptitude test
   b) programming test
   c) face to face technical interview
   d) HR Interview

Java Full Stack Development

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Placement Policy

1. 80% attendance mandatory
2. 50% marks must be last mock interview
3. Placement start after 4.5 month from admission date.

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Backend Course Overview

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1 Core JAVA+DS & SQL /PLSQL

2
ADVANCE JAVA
1. JDBC
2. Servlet
3. JSP

3
Java Framework
1. Spring Framework
2. Hibernate
3. Spring Boot
4. Micro Services

4
IDE/Editor & Dev tools
1. Notepad++
2. Eclipse
3. Spring tool Suite
4. IntelliJ IDEA

Build Tools
Maven & Gradle

Version Control tool
GIT & Bitbucket

CI/CD Tools
Jenkins & Travis CI

Testing tools
Junit & Mocketo

Code Analysis tool
SonarQube

Containerization Tools
Docker & Kubernetes

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Front End Course Overview

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1. HTML
2. CSS
3. Boot Strap
4. JavaScript
5. React JS
6. Soft Skill + Quantitative Aptitude

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Project Overview

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1	Console Base Project
2	Web Application using Spring MVC
3	Web application with REST API Using React & Spring Boot

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Core Java In Depth Syllabus

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1 Basic of Java

1. Introduction of JAVA
2. Creating Program using notepad
3. Creating Project using Eclipse
4. Data Type
5. Operator
6. Command Line Argument
7. Scanner class
8. Operator Priority
9. Decision Making
   a. if b) if else c) nested if
   d. else if ladder e. switch
10. Looping:
    a) while b) for loop
    c) do while loop
    d) nested loop & patterns

Note:

1. 35 assignment covered by trainer in class room
2. 40 assignment practice for student in lab and as home work

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Core Java In Depth Syllabus

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2 Array And Data Structure

1. **Array:** single dimension and multi dimension array + Jagged Array
   25 program in class room + 40 program for practice ask by previous campus

2. **Data structure Related with Array:**
   a) Stack
   b) Queue + Circular Queue
   c) Searching algorithm like as linear search and binary search
   d) Sorting algorithm like as bubble sort, selection,insertion,heap etc

Note: 30 problem we will discuss on searching algorithm for coding round.

Core Java In Depth Syllabus

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3 OOP Concept Using Java

Classes and object: class, object, array of object, this, array As parameter in function, enhance for loop, method with variable Argument & much more (20 assignments on classes object)

Constructor: def constructor , overloaded constructor, Parameterized constructor , this constructor and chaining

Polymorphism : compile time polymorphism and run time polymorphism.

Core Java In Depth Syllabus

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4 OOP Concept Using Java

Inheritance : Introduction, Type of inheritance, super constructor, Super keyword ,final keyword, method overriding, abstract keyword ,dynamic polymorphism ,loose coupling implementation, Difference between compile time polymorphism and run time Polymorphism and much more

30+ assignments on inheritance for practice and + 20 assignments In class room

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5 Exception Handling

Exception Handling:
Introduction
Types of exception
Exception class Hierarchy
Keywords and clauses: try ,catch, finally,throw and throws
Note: JDK 1.7 enhancement in Exception Handling
20+ assignment for practice and + 10 assignments in class room

Core Java In Depth Syllabus

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6 Wrapper classes

Wrapper classes:

1. Introduction of Wrapper classes & why java develop it
2. Types of conversion like as primitive and referential
3. Implicit and explicit conversion and problem in explicit conversion
4. Wrapper class Hierarchy
5. AutoBoxing and AutoUnboxing concept
6. Number class and its method , parseXXX method,valueOf etc
7. String,StringBuffer and StringBuilder

Note: 30+ assignment for practice and 15 assignment in class room On string

Core Java In Depth Syllabus

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7 Collection Framework

1. Introduction of Collection + need of collection
2. Collection Hierarchy diagram and with detail method explanation
3. Types of Collection : List,Set,Queue & Its implementer classes

Like as Vector,ArrayList,LinkedList,Stack,HashSet,LinkedHashSet,TreeSet ,PriorityQueue,Dqueue etc

4. Collections class with Comparable,Comparator interface
5. Map : HashMap,LinkedHashMap,TreeMap etc
6. Object class and its methods

Note: 30+ assignments on Collection for pactice and 20+ Assignments in class room covered by trainer

Core Java In Depth Syllabus

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8 MultiThreading

1. Introduction of multi threading
2. Creating thread using thread class and Runnable interface
3. Methods of Thread class in depth like as start(),stop()

Boolean isAlive(),join(),sleep() etc

4. Synchronization and ASynchronization with real time senario
5. Thread Pooling and Concurrency API
6. Executer Services

Note: 20+ Assignments on threading + 10 assignment cover by Trainer in class room

Core Java In Depth Syllabus

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9 File Handling/IOStream

Introduction of FileHandling
Hierarchy of Stream and Writer classes
Detail explanation on : Writer,FileWriter,BufferedWriter,PrintWriter, FileOutputStream,FileInputStream,FileReader,BuffereredReader, ObjectOutputStream,ObjectInputStream etc

Serialization and DeSerialization using JAVA

Note: 20+ assignment for practice and 10+ assignment covered by Trainer in class room.

Core Java In Depth Syllabus

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10 JDK 1.8

1. Functional interface
2. Lambda expression
3. Functional interfaces
   a) Consumer
   b) Supplier
   c) Predicate & Function etc
4. Date and Time API
5. Stream API
6. Concurrency API Improvement
7. Collection API Improvement
8. Optional class
9. Static method in interface
10. Default method in interface
11. Method Reference

Core Java In Depth Syllabus

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11 JDK 1.9

1. Improved Javadoc
2. Factory methods for collections(like List, Map, Set and Map.Entry)
3. JShell: The Interactive Java REPL
4. Stream API Improvements
5. Private Methods in Interfaces
6. Multi-Resolution Image API
7. The Java(9) Platform Module System

Advance Java In Depth Syllabus

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12 JDBC

1. Introduction About JDBC
2. Connect Java Application with Database using Connection interface
3. Driver and its type
4. Statement interface, PreparedStatement interface, CallableStatement
5. ResultSetMetaData, DatabaseMetaData etc
6. CSV file uploading in Database
7. properties file reading using java code
8. CRUD Application
9. Working with image and text file using JDBC

Note: 15+ assignment for practice and 15+ assignment covered By Trainer in Batch

First Project

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13	Console Base Project

Project Tools & Technology:

Language: Core Java + JDK 1.8 and JDK 1.9
API : JDBC , Lombok
IDE : Eclipse
Build Tools: Maven
Logging Tool: Log4j
Database Language: SQL/PLSQL
Database Tool: MYSQL
Note: Project based on IEEE paper
Duration of Project: 3 week

Advance Java In Depth Syllabus

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14 Servlet Technology

1. Introduction of Servlet & Web application
2. Servlet and its type like as web server ,application server et
3. Managing Request and Response l
4. Form submission
5. Session handling ,cookie handling
6. Application object handling like as ServletContext and ServletConfig
7. Connecting Servlet with database using JDBC
8. CRUD Application Handling using Servlet and JDBC

Advance Java In Depth Syllabus

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15 JSP

1. Introduction of JSP & Need of JSP
2. Difference between Servlet and JSP
3. Managing Request and Response Using JSP
4. Basic Tags and Action tag of JSP with JSTL Tag library
5. Session handling ,cookie handling
6. Application object handling like as application object
7. Connecting JSP with database using JDBC
8. CRUD Application Handling using Servlet and JDBC

Spring Framework In Depth Syllabus

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16 Module-1 – Spring Core

1. What is Spring & Why use it
2. Dependency injection & Loose coupling concept
   a) setter injection b) constructor injection c) object dependency
   d) collection dependency e) map dependency f) property dependency
3. Spring application Using XML Configuration + Annotation Configuration
4. Annotation Covered in Spring core:
@Autowired @Qualifier @Primary @Bean @Lazy @Required @Value @Scope @Lookup, etc.
5. Bean life cycle and its practical implementation
6. Spring core application using annotations.

Note: 20+ assignment for practical + 20 assignment covered by trainer In class room.

Spring Framework In Depth Syllabus

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17 Module-2 – Spring JDBC

1. **Introduction of Spring Jdbc**
2. **Advantages of Spring Jdbc & Data Source.**
3. **Centralized Classes of Spring Jdbc**
   JDBCTemplate ,NamedparameterJdbcTemplate,StoredProcedure
   SimpleJdbcTemplate
4. **Calling Procedure Using JDBC Template**
5. **Configure JDBC Application using XML + annotation**

Note: Mini CRUD Application using Spring JDBC Template.
10+ Assignment for practice using Spring JDBC + 10 assignment
Covered by trainer in class room

Spring Framework In Depth Syllabus

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18 Module-3 – Spring MVC

1. **Introduction of Spring Jdbc**
2. **Advantages of Spring Jdbc & Data Source.**
3. **Centralized Classes of Spring Jdbc**
   JDBCTemplate ,NamedparameterJdbcTemplate,StoredProcedure
   SimpleJdbcTemplate
4. **Calling Procedure Using JDBC Template**
5. **Configure JDBC Application using XML + annotation**

Note: Mini CRUD Application using Spring JDBC Template.
10+ Assignment for practice using Spring JDBC + 10 assignment
Covered by trainer in class room

Spring Framework In Depth Syllabus

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19 Module-3 – Spring MVC

1) Introduction MVC Designpattern
2)FrontControllerDesignPattern
3)Spring 3.X Features
4)Spring MVC Architecture
5)DispatcherServlet
6)HanderMappings
7)ValidationFramework
8)HandlerInterceptors
9)Spring MVC TilesFramework
10)Spring MVC Themes

Note: 10+ assignments on Spring MVC for practice and
Mini Project Teach by Trainer in class room duration of project is 40 hours

Second Project

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20	Web Application

Language: Core JAVA+JDK1.8
Database Language: SQL/PLSQL
IDE: Eclipse/Spring tool Suite
Database Tool: MYSQL
Front End Technologies: HTML/CSS/Bootstrap/JS
Build Tool: Maven
Framework: Spring MVC ,Spring Core, Spring JDBC
Deployment Architecture: Monolithic
Testing Library/Tool: Junit &Mocketo
Code Quality Analysis tool: SonarQube
Duration: 3 week

Second Project

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21 Hibernate

1. Introduction of hibernate and ORM
2. HQL and HCQL Query
3. Hibernate application using XML and annotation
4. Project and ProjectList
5. Association: a) one to many b) many to one c) many to many d) one to one etc
6. Joins using hibernate
7. First level cache and second level cache implementation

Using hibernate

Spring Boot & Micro Services Syllabus

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22 Spring Boot & Micro Services

1. Introduction to spring boot
2. Building Spring Boot Application
3. Rest Annotation with In Memory Database & CRUD Operations
4. Rest Annotation with Relation DB
5. JPA Repository Concepts
6. Actuator Concepts
7. Spring Boot Custom Logging
8. Spring Boot Profile Components
9. Auto Configuration
10. Thymleaf Concepts
11. Integration with Spring Web

Spring Boot & Micro Services Syllabus

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23 Spring Boot & Micro Services

12.Spring Boot Security
13.Database Concepts
14.Core Concepts
15.Micro Services
16. Micro Services Design Considerations
17. Spring Cloud
18. Spring Cloud Config
19. Netflix
20. Fault Tolerance Concepts
21. API Gateway
22. Oatuh2 Concepts & Swagger API
23.Cloud Hosting

Third Project

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24 Web Application: React+Spring Boot

Language: Core JAVA+JDK1.8
Database Language: HQL
IDE: Intellij IDEA
Database Tool: MYSQL
Front End Technologies: HTML/CSS/Bootstrap/JS/React
Build Tool: gradle
Framework: Spring Boot + Spring DATA JPA
Deployment Architecture: Micro services
Testing Library/Tool: Junit &Mocketo
Container: Docker
Code Quality Analysis tool: SonarQube
CI /CD: Jenkins
Duration: 3 week

Front End In Depth Syllabus

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25 HTML5

1. Introduction of HTML & Why use HTML
2. Basic Tags: like <h1> to <h6> , <p>, <b> , ,<i>, ,<mark>,<small>,<del> ,<ins> ,<sub>,<sup>, <blockquote>,<q>, <abbr>, <address>, <cite>, <bdo>
3. HTML color: RGB, HEX, HSL
4. HTML Links: <a href=''> with _self, _blank , _parent ,_top attribute, HTML book mark concept and HTML Link color

5.HTML img tag,HTML Table, HTML form tag, HTML Inline & block element, HTML iframe tag, Symmentic HTML tags,HTML5 new elements and much more

Note: 20+ assignments for practice and 20+ solve by trainer in class room.

Front End In Depth Syllabus

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26 CSS

1.Introuction to CSS and Why use it.
2.Types of CSS
3. Selector in CSS
4. Background Color and images property
5. CSS position & float property
6. CSS flex property
7. CSS Padding & Margin
8. Border property & outline property
9. Font related property
10. CSS tables & Link
11. CSS display property
12. z-index and overflow property
13. CSS with form handling
14. CSS Gradients
15. CSS Animation
16. Transformation & Transition
17. CSS Masking
18. CSS Media Query
19. CSS object fit
20. CSS object fit property

Note: 3 websites teach by trainer in class room and 2 websites provide as practice assignments

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27 JavaScript

1.Introduction of JavaScript
2.Types of JavaScript
3. Variable declaration
4. Function definition
5. Looping and array
6. Event Handling
7. DOM Manipulation
8. BOM manipulation
9. String Handling
10. Regular Expression
11. Validation using JS

Advance JavaScript.
12. Template string
13. Arrow function
14. Rest operator
15. Spread operator
16. array destructuring
17. OOP concept
18. Async & await
19. Promises in JavaScript
20. fetch() API
etc

Front End In Depth Syllabus

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28 React

1. Introduction of React
2. React ES6
3. React JSX & babble
4. React Render method
5. React Components
6. Class component
7. Events in React
8. Props in React
9. React conditional
10. React state variable
11. React Form
12. React List
13. Props
14. React Routing
15. Class component
    life cycle
16. React function component
17. CSS With React component
18. Hooks in React
    a) useState b) useEffect c) useContext
    d) useMemo e) useCallBack f) useReducer
    f) customHook etc

Front End In Depth Syllabus

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29 React

1. React Material UI Library
2. React + Redux
3. React Flux

etc

Note: 20+ assignments for practice using React and 20 assignment cover In class by trainer as well as 2 live website teach by trainer and 2 projects For practice.

Syllabus of Quantitative Aptitude

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30 Quantitative Aptitude & Logical Reasoning

1. Numbers
2. Average
3. Ratio & Proportion
4. Percentage
5. Profit & Loss
6. SI/CI
7. Time & Work
8. Time Speed & Distance
9. Data Interpretation
10. Permutation & Combination
11. Probability

1. Blood Relation
2. Direction Test
3. Coding & Decoding
4. Clock
5. Calendar
6. Seating Arrangement
7. Cube & Dice
8. Syllogism
9. Data Sufficiency
10. Puzzles
11. Figure based reasoning

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Syllabus of Quantitative Aptitude

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31 English & Soft Skill

1. Basic Grammar
2. Vocabulary Building
3. HR Preparation
4. Presentations
5. Public Speaking
6. GD Preparation
7. Email Writing
8. ATS friendly Resume Building
9. HR Ethics
10. Corporate Ethics
11. Personality Development
12. Importance of Time Management
13. Technique to Time Management

Thank You