TRAINING MODULE COURSE CONTENTS FOR INTERNS/NEW RECRUITS (Online PSB Loans Limited)

Module-1 (Java)

<u>Core Java Module</u>				
S.no.	Title	Description		
1	Basic OOPs Concepts	Abstraction, Encapsulation, Polymorphism etc.		
2	Constructor	Default and Parameterized Constructor		
3	Advance for Loop	Working with for-each loop		
4	Inheritance	Understanding of Is-A relationship		
5	Interface	Use of Interface		
6	Overloading and Overriding	Compile and Runtime polymorphism		
7	Exception handling	Handling of Exception		
8	Collection Framework	Understanding of Collection and their uses		
9	Generics	Use of Generics in Collection		
10	Stream API	Understanding of Stream API		
11	Date & Time	Work with Date & Time API		
12	Comparator Vs Comparable	Uses of Comparator & Comparable Interface		

Module-2 (Spring Boot)

Spring-boot Module				
S.no.	Title	Description		
1	Spring Core	Basic of Spring Core		
2	Spring ORM	Hibernate		
3	Spring Boot	Understanding Spring Boot features		
4	Spring Annotation	Uses of Common Annotations		
5	Spring Entity	Work with @Entity Annotation		
6	Spring Controller	Work with @Controller Annotation		
7	Spring Data JPA	Project with Entity and JPA		
8	Spring Mapping	One-One, One-to-Many, Many-to Many		
9	Spring Service, Repository	Understanding @Service and @Repository		
10	Lombok	Working with Lombok Lib and their Features		
11	Spring Exception handling	Use of @ControllerAdvice etc.		
12	Spring Data REST	Development of REST Services		
13	HTTP Methods	GET, POST, PUT, DELETE MappingRequest		
14	REST Service with Request Data	Uses of @RequestBody, @PathVariable etc.		
15	POSTMAN Software	Test Services through POSTMAN		
16	Spring Validation	Server Side Validation		
17	Working with File/Document	Use of Multipart Data, Dynamic Path etc.		
18	Spring Security	Spring Security using JWT		
19	Micro-services Basic	Basics of Micro-services, uses of micro-services		
20	Implementation of Micro-Service	Real-time Implementation of Project with concept of Micro-service		

Module-3 (DBMS-MySQL)

<u>SQL Module</u>				
S.no.	Title	Description		
1	SQL Syntax	Understanding Basic SQL Syntax		
2	DDL	Definition Manipulation		
3	Select Statement	Querying Data with the Select Statement		
4	Where Clause	Filtering Results with the Where Clause		
5	ORDER BY, GROUP BY	Shaping Results with ORDER BY and GROUP BY		
6	DML	Data Manipulation		
7	JOINs	Understanding Basic of JOINs		
8	(INNER) JOIN			
9	LEFT (OUTER) JOIN	Matching Different Data Tables with JOINs		
10	RIGHT (OUTER) JOIN	Waterling Different Data Tables with Johns		
11	FULL (OUTER) JOIN			
12	Project based on JOINs	Web based Project using JOINs and Dummy DB		
13	Query Optimization	Query optimization using indexes		
14	Stored Procedure	Creation of Stored Procedure for specific task		
15	Trigger	Creation of Trigger		

Module-4 (Angular)

<u>Angular Module</u>				
S.no.	Title	Description		
1	Angular Overview	Installation, Features of Angular		
2	Folder Structure	Understanding of folder structure		
3	Components	Working with Component		
4	Data Binding	Text interpolation, 2-Way Binding etc.		
5	Typescript	Typescript Fundamentals		
6	Directives	ng-model etc.		
7	Module	Working with Module		
8	Service	Understanding of Service		
9	Routing	Working with Routing		
10	Template Driven Forms	Forms		
11	Reactive Forms	Forms		
12	Consuming REST API	Calling APIs		
13	Validation	Front-end validation		
14	Security	Authorization and Authentication		
15	Style/CSS	Use of Bootstrap and Angular Material		
16	Auth-guard	JWT Implementation		