Java Syllabus

DAYS	TOPICS	Date	SIGNATURE
Day 1	• Intro Java • Java feature • Version explanation		
Day 2	• JVM architecture • Basic Java programming execution(Notepad)(javac ,java)		
DAY 3	• Keyword • Variable • Identifier • Data type • Declaration and Initialization		
DAY 4	• Memory management: stack & heap • Spring boot Tool Suite (IDE installation)		
DAY 5	• Arithmetic operator • Logical operator		
Day 6	• Conditional operator • Ternary operator		
Day 7	• Control statement introduction • Conditional statement: if, if else, else if, switch		
Day 8	Looping statement: • while • do-while		
Day 9	• for • for-each		
Day 10	Written test (logical programming)		
Day 11	• Program workout session • Scanner, object creation		
Day 12	• Data Structure • Debugging • Array		
Day 13	Array: save retrieve		
Day 14	• Array workout based on interview • Minimum maximum program • Swap array value		
Day 15	Written test or mock test		
Day 16	• Introduction to Java OOPs • Object in Real time		
Day 17	• Global, local, reference variable • Access modifier		
Day 18	• Class • Packages • Object		
Day 19	Class creation with real time example		
Day 20	Mock test(personal evaluation)		
Day 21	Encapsulation		
Day 22	Polymorphism • Compile time • Run time		
Day 23	Inheritance:		

	• Single • Hierarchical		
Day 24	Inheritance: • Multilevel • Hybrid		
Day 25	• Project: Problem of statement, assign team, split • Mock test (online)		
Day 26	Interface		
Day 27	Abstraction: • Class • Method		
Day 28	OOPs workout with debugging		
Day 29	• Logical Thinking session • Real Time business to program		
Day 30	• Basic OOPs project • Weekend Mock Interview		
Day 31	• Aggregation • Composition • Association		
Day 32	Exception handling		
Day 33	Custom exception handling		
Day 34	Functional Interface		
Day 35	• Workout or Mock test • Project module presentation		
Day 36	Collection framework: Architecture explanation		
Day 37	List: • Array list • Linked list • Stack vector		
Day 38	Set: • Hash set • Linked hash set • Sorted test: Tree set		
Day 39	Queue • Priority Queue • Dequeue		
Day 40	Collection workout		
DAY 41	Lambda expression and stream API		
Day 42	• Stream method • Filter • Sort • Collector		
Day 43	• String mutable • String immutable • String buffer		
Day 44	File handling		
Day 45	Written test		
Day 46	Wrapper classes		
Day 47	• Multitasking intro • Multiprocessing		
Day 48	Multi-threading		
Day 49	Workout session		

Day 50	Mock test		
Day 51	• Spring boot introduction • Client server communication		
Day 52	• http and http methods • Data packet request and response		
Day 53	Spring boot layer		
Day 54	• Rest API creation • Application, property file • POM file		
Day 55	Swagger integration		
Day 56	Dependency injection		
Day 57	• Servlet • Dispatch servlet		
Day 58	Control and Service layer integration		
Day 59	Spring boot workout session		
Day 60	• MySQL or Postgres SQL installation • PgAdmin installation		
Day 61	Types of SQL commands		
Day 62	DDL commands		
DAY 63	Table constraints		
Day 64	DML commands with where clauses		
Day 65	Mock or Written test with SQL questions		
Day 66	Group By , Order By		
Day 67	SQL Joins		
Day 68	Sub queries		
Day 69	Hibernate and JPA		
Day 70	• Repository layer creation • DB configuration		
Day 71	Table creation using model		
Day 72	Post mapping		
Day 73	Get mapping		
Day 74	• Delete mapping • CRON scheduling		
Day 75	Spring boot Workout session		
Day 76	• GitHub • Maven project build		
Day 77	Deployment: local		
Day 78	Online deployment		
Day 79	Project work		
Day 80	Project work		
Day 81	Interview questions workout		
Day 82	Mock test or Written test		
Day 83-90	Project module Submission		