

# CORE JAVA SYLLABUS

<u>Day</u>	<u>Topics</u>	<u>Options Covered</u>	<u>Hours</u>
Day 1	<b>Java Fundamentals</b>	JAVA Editions Introduction Java Language JAVA SE JAVA EE JAVA ME	1hr
Day 2		Java Software JDK JRE Set Path JVM	1hr
DAY 3		Java History Java Features History of JAVA Java Features	1hr
Day 4		Structure of JAVA Documentation Section Import or Package Section Class Section main() method section	1hr
Day 5 Day 6 Day 7 Day 8	<b>Basic Programs</b>	Basic Programs Operators & Types If,ifelse,nested if,else if ,switch While,do-while,for Break,continue	4 hrs
Day 9 Day 10	Arrays	Array Definition Single Dimensional Array Multi Dimensional Array	2hrs
Day 11 Day 12	Strings	String Handling Methods StringBuffer StringTokenizer	2hrs
Day 13	Introduction to OOPS	Features <ul style="list-style-type: none"> <li>• Class and Object</li> <li>• Encapsulation</li> <li>• Polymorphism</li> <li>• Abstraction</li> <li>• Inheritance</li> </ul>	1hrs
Day 14 Day 15 Day 16	OBJECT ORIENTED PROGRAMMING	Class and Object Declaration Methods Types of Methods Passing Object as Method Argument	3 hrs
Day 17 Day 18	Constructors	What is Constructor? Type of Constructor Constructor Overloading This keyword	2 hrs

Day 19 Day 20	Relationship Between Objects	By Using Reference Inner Class Concept	2hrs
Day 21 Day 22 Day 23	Inheritance	Single Inheritance Hierarchical Inheritance Multi-Level Inheritance	3hrs
Day 21 Day 22	Polymorphism	Method Overloading Method Overriding Super Keyword Final Keyword	2 hrs
Day 26	Abstraction	Abstract Class Abstract Method	1 hr
Day 27 Day 28	Interfaces	What is Interface? Declaration Multiple Inheritance	2 hrs
Day 29 Day 30	Packages	What is Package? Steps to implement Package Access Protection CLASSPATH	2 hrs
Day 31 Day 32	Exception Handling	Definition Types Build in Exception User Defined Exception	2 hrs
Day 33 Day 34	Multithreading	Thread Lifecycle Thread Class Runnable Interface Synchronization	2 hrs
Day 35 Day 36 Day 37 Day 38	Streams & Files	File Class I/O Stream Hierarchy File Input Stream File Output Stream	4 hrs
Day 39	Wrapper Classes	Classes used as wrappers	1 Hr
Day 40 Day 41 Day 42 Day 43	Generics & Collection Frame Works	Examples on Generics HashSet,LinkedHashSet, ArrayList,Stack,LinkedList Vector,HashMap, Arrays,Date,Calender	4 hrs
Day 44	Regular Expression	Examples on Reg. Expressions	1 hr

Day 45 Day 46 Day 47 Day 48 Day 49 Day 50	<b>GUI</b>	Abstract Windowing Toolkit(AWT)	Frame, Label,Text Field,Button,Choice,List,CheckBox CheckboxGroup,Adding Image to Frame,All Listeners and Listener Methods	6 hrs
Day 51 Day 52 Day 53 Day 54 Day 55 Day 56		SWINGS	Window Panes,JFrame ,JLabel JText Field,JButton,JCheckBox JRadioButton,JTable Adding Image to JFrame,etc.,	6 hrs
Day 57 Day 58		Applets	Applet Life Cycle Working with Graphics Drawing a lines,circles,rectangles,font	2hrs
Day 59	Networking		Types of Networks Sockets,ClientSocket ServerSocket, InetAddress ,Url	1 hr
Day 60	JDK 8 features		New features in JDK 8	1 hr