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| **CORE JAVA SYLLABUS** | | | | |
| **Day** | **Topics** | | **Options Covered** | **Hours** |
| Day 1 | **Java Fundamentals** | 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 | **Basic Programs** | | 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   * Class and Object * Encapsulation * Polymorphism * Abstraction * Inheritance | 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 |

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| 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 |

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| Day 45  Day 46  Day 47  Day 48  Day 49  Day 50 | **GUI** | Abstract Windowing Toolkit(AWT) | Frame, Label,Text Field,Button,Choice,List,CheckBox ChecboxGroup,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 AND 9 ,11 features | | New features in JDK 8 | 1 hr |