

**1 Basics Of Computer Science**

**2 Computer Basics**

**3 Computer Hardware**

**4 Basics Of Computers**

**5 MS Office Tool ( s ) App ( s ) Application ( s )**

**MS Word**

**MS Powerpoint**

**MS Excel**

**MS Access Optional**

**Google Sheet ( s ) Web Page ( s ) or Web Site**

**Java Syllabus**

Java – Home

Java-Introduction

Java - Overview

C And C++ -> Java

Java - History

Java - Versions with Version Number and released year ( s )

Java - Features

Java vs C++

Java Virtual Machine(JVM)

Java - JDK vs JRE vs JVM

Java - Hello World Program

Java - Environment Setup

Java - Basic Syntax

Java - Variable Types

Java - Data Types

Java - Type Casting

Java - Unicode System

Java - Basic Operators

Java - Comments

Java - User Input

Java Control Statements

Java - Loop Control

Java - Decision Making

Java - If-else

Java - Switch

Java - For Loops

Java - For-Each Loops

Java - While Loops

Java - do-while Loops

Java - Break

Java - Continue

Object Oriented Programming

Java - OOPs Concepts

Java - Object & Classes

Java - Class Attributes

Java - Class Methods

Java - Methods

Java - Variables Scope

Java - Constructors

Java - Access Modifiers

Java - Inheritance

Java - Aggregation

Java - Polymorphism

Java - Overriding

Java - Method Overloading

Java - Dynamic Binding

Java - Static Binding

Java - Instance Initializer Block

Java - Abstraction

Java - Encapsulation

Java - Interfaces

Java - Packages

Java - Inner Classes

Java - Static Class

Java - Anonymous Class

Java - Singleton Class

Java - Wrapper Classes

Java - Enums

Java - Enum Constructor

Java - Enum Strings

Java Built-in Classes

Java - Number

Java - Boolean

Java - Characters

Java - Strings

Java - Arrays

Java - Date & Time

Java - Math Class

Java File Handling

Java - Files

Java - Create a File

Java - Write to File

Java - Read Files

Java - Delete Files

Java - Directories

Java - I/O Streams

Java Error & Exceptions

Java - Exceptions

Java - try-catch Block

Java - try-with-resources

Java - Multi-catch Block

Java - Nested try Block

Java - Finally Block

Java - throw Exception

Java - Exception Propagation

Java - Built-in Exceptions

Java - Custom Exception

Java Multithreading

Java - Multithreading

Java - Thread Life Cycle

Java - Creating a Thread

Java - Starting a Thread

Java - Joining Threads

Java - Naming Thread

Java - Thread Scheduler

Java - Thread Pools

Java - Main Thread

Java - Thread Priority

Java - Daemon Threads

Java - Thread Group

Java - Shutdown Hook

Java Synchronization

Java - Synchronization

Java - Block Synchronization

Java - Static Synchronization

Java - Inter-thread Communication

Java - Thread Deadlock

Java - Interrupting a Thread

Java - Thread Control

Java - Reentrant Monitor

Java Networking

Java - Networking

Java - Socket Programming

Java - URL Processing

Java - URL Class

Java - URLConnection Class

Java - HttpURLConnection Class

Java - Socket Class

Java - Generics

Java Collections

Java - Collections

Java - Collection Interface

Java List Interface

Java - List Interface

Java - ArrayList

Java - Vector Class

Java - Stack Class

Java Queue Interface

Java - Queue Interface

Java - PriorityQueue

Java - LinkedList

Java - ArrayDeque

Java Map Interface

Java - Map Interface

Java - HashMap

Java - LinkedHashMap

Java - WeakHashMap

Java - EnumMap

Java - SortedMap Interface

Java - TreeMap

Java - The IdentityHashMap Class

Java Set Interface

Java - Set Interface

Java - HashSet

Java - EnumSet

Java - LinkedHashSet

Java - SortedSet Interface

Java - TreeSet

Java Data Structures

Java - Data Structures

Java - Enumeration

Java - BitSet Class

Java - Dictionary

Java - Hashtable

Java - Properties

Java Collections Algorithms

Java - Iterators

Java - Comparators

Java - Comparable Interface in Java

Java - Collection Interface

Advanced Java

Java - Command-Line Arguments

Java - Lambda Expressions

Java - Sending Email

Java - Applet Basics

Java - Javadoc Comments

Java - Autoboxing and Unboxing

Java - File Mismatch Method

Java - REPL (JShell)

Java - Multi-Release Jar Files

Java - Private Interface Methods

Java - Inner Class Diamond Operator

Java - Multiresolution Image API

Java - Collection Factory Methods

Java - Module System

Java - Nashorn JavaScript

Java - Optional Class

Java - Method References

Java - Functional Interfaces

Java - Default Methods

Java - Base64 Encode Decode

Java - Switch Expressions

Java - Teeing Collectors

Java - Microbenchmark

Java - Text Blocks

Java - Null Pointer Exception

Java - Packaging Tools

Java - Sealed Classes

Java - Record Classes

Java - Hidden Classes

Java - Compact Number Formatting

Java Miscellaneous

Java - Recursion

Java - Regular Expressions

Java - Serialization

Java - Strings

Java - Process API Improvements

Java - Stream API Improvements

Java - Enhanced @Deprecated Annotation

Java - CompletableFuture API Improvements

Java - Array Methods

Java - Streams

Java - Datetime Api

Java 8 - New Features

Java 9 - New Features

Java APIs & Frameworks

JDBC Java Database Connection or Connectivity