



Core Java Java

With AI Syllabus

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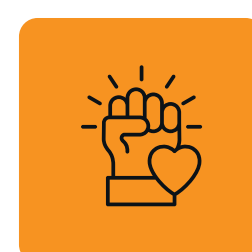
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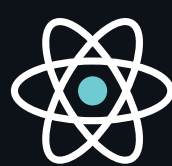


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Mr. Kunal Sir

Director of **CJC EdTech by Kunal Sir**.

Mr. Kunal Sonu, Director of **CJC EdTech by Kunal Sir**, holds a Master's degree in Computer Applications & has over **15+ years** of experience in Java/J2EE technologies. After resigning from Syntel, he pursued a career in teaching to provide in-depth knowledge and guidance to aspiring professionals. **Mr. Kunal** has delivered lectures at renowned institutions such as **Sinhgad Institutes, JSPM Group, & MMCOE, Pune**. With a passion for education, he is dedicated to helping **students achieve success in their careers**.

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CORE JAVA

1. JDK 1.8 New Features

Java 8 Interface Default Method

Java 8 Interface Static Method

Java 8 Functional Interface

Java 8 Lambda Expression

Java 8 forEach() Method

Java 8 Stream API

Java 8 Collection

Important Features of Java 8



2. Introduction to Java

History of Java

Important Features of Java

JVM Architecture

JDK, JRE and JVM

Java Keywords



Simple Hello World Program



Java Flow Control



Source File Structure



Class and Objects



Data Types

Primitive Data Types / Non-Primitive Data Types

Constructor

Packages

Instance & Static Variables

Static Block

Has-A Relationship (Secondary Reference)

Setter and Getter Methods

Method Return Type (Primitive type and Class type)

3. Object-Oriented Programming (OOPs) Concepts

Inheritance (IS-A Relationship)

Constructor and Inheritance

Inheritance with Parent Reference & Child Constructor

Covariant Return Types

Inheritance and Type Casting

this / `super` Keyword

Polymorphism

Method Overloading



Constructor Overloading



- ☕ Compile-Time Polymorphism
- ☕ Method Overloading & Narrowing Concept
- ☕ Method Overriding
- ☕ @Override Annotation
- ☕ Overriding & toString() Method

► Abstraction

- ☕ Abstract Class
- ☕ Interface
- ☕ Marker Interface
- ☕ Interface and Multiple Inheritance
- ☕ Uses and Benefits of Interface with Example
- ☕ Difference between Interface & Abstract Class

► Encapsulation

- ☕ Access Modifiers
- ☕ Data Hiding
- ☕ protected Access Modifier

OOPs Project



4. Exception Handling

- ☕ What and Why?
- ☕ (Try, Catch, Finally, Throw, Throws, Try with Resources)
- ☕ Try and Catch Block
- ☕ Multiple Catch Blocks
- ☕ Throw Keyword
- ☕ Exception Propagation
- ☕ Custom Exception
- ☕ AutoCloseable Interface (JDK 1.7 Feature)
- ☕ Try with Resources (JDK 1.7 Feature)
- ☕ Nested Try
- ☕ Finally Block

Finally Block with Return Statement

- ☕ Throws Keyword

Throws with Method Throws with Constructor



5. String Handling

- ☕ What and Why?
- ☕ Immutable String
- ☕ Methods of String Class
- ☕ Creating an Immutable Class



6. Collection Framework

Collection Project

- ☕ Java Collection
- ☕ **Java List** - ArrayList, Vector, LinkedList | Nested List | Sorting Lists | Handling Duplicates in List
- ☕ **Java Set** - HashSet | TreeSet | LinkedHashSet | Nested Set
- ☕ **Java Map** - HashMap | LinkedHashMap | WeakHashMap
- ☕ **Cursors** - Iterator | ListIterator | Enumeration
- ☕ Java Collections Utility Class
- ☕ **Comparable & Comparator** - Custom Sorting | Difference between Comparable & Comparator
- ☕ Collection and Generics



7. MultiThreading



-  Introduction
 -  Extending Thread Class
 -  Thread creation using Thread Class
 -  Implementing Runnable Interface
 -  Thread creation using Runnable Interface
 -  Callable Interface
 -  Thread Methods (sleep, join, yield, etc.)
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8. Synchronization



-  What and Why?
 -  Synchronized Method
 -  Synchronized Block
 -  Static Synchronization
-

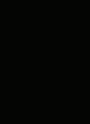
9. Input and Output



-  File
 -  FileWriter & FileReader
 -  BufferedWriter & BufferedReader
 -  Input from Keyboard by Console
 -  Input from Keyboard by Scanner Class
 -  PrintWriter Class
 -  Reading and Writing Data Simultaneously
-

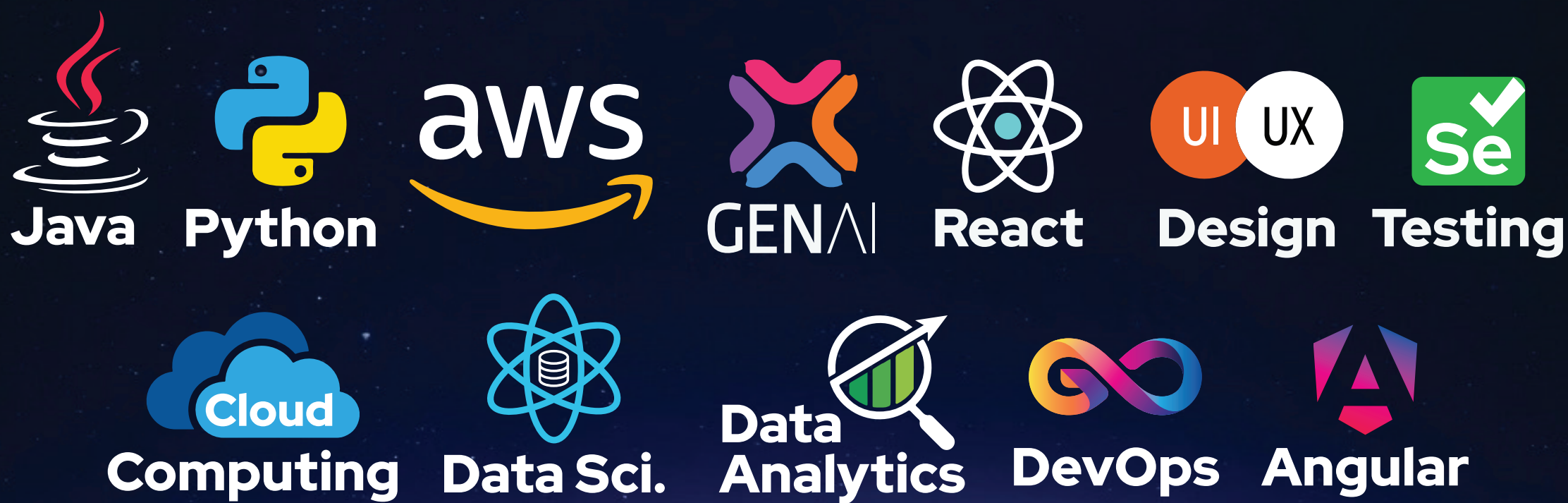
10. SQL



-  Database Introduction
-  SQL Introduction
-  MySQL Installation
-  MySQL Workbench Installation
-  Data Types
-  DDL, DML, TCL
-  Create Table
-  Select Statement
-  Insert, Delete, Update Queries
-  DISTINCT Clause
-  WHERE Clause
-  ORDER BY Clause
-  GROUP BY Clause
-  SQL Joins
-  Outer Join (Left, Right, Full)
-  Stored Procedure



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