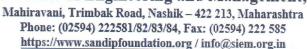


## Sandip Institute of Engineering and Management, Nashik





#### **Department of Computer Engineering**

Date - 01/10/2023

#### **Notice**

All the TE students are here by informed that department is going to conduct Value Addition Program on "Basic and Core Java" from 6<sup>th</sup> Oct 2023 to 11<sup>th</sup> Oct 2023.

It is compulsory to all to attend this VAP. The VAP content (Theory and Practical's) will be communicated soon.

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#### SANDIP FOUNDATION'S



SANDIP Sandip Institute of Engineering & Management,

At Post Mahiravani, Trimbak Road, Nashik-422213

DEPARTMENT OF COMPUTER ENGINEERING

Hands-On-Workshop

0n



## **BASIC** and Core JAVA

By

Prof M. V. Korade

Date: 06/10/2023 to 11/10/2023

Time: 10am to 5 pm

**Venue: Computer Seminar Hall** 

Dr. K. C. Nalavade HOD Computer

Dr. D. P. Patil Principal SIEM



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#### **Course Content: -**

#### **Course Title: Basics and Core Java**

Module No.	Module	Content
Module 1	Introduction to Java	<ol> <li>What is Java?</li> <li>History of Java</li> <li>Features of Java</li> <li>Java Development Environment</li> </ol>
Module 2	Java Basics	<ol> <li>Java Syntax and Structure</li> <li>Data Types</li> <li>Variables and Constants</li> <li>Operators</li> <li>Control Flow (if, else, switch)</li> </ol>
Module 3	Object-Oriented Programming in Java	<ol> <li>Classes and Objects</li> <li>Constructors</li> <li>Inheritance</li> <li>Polymorphism</li> <li>Encapsulation</li> <li>Abstraction</li> </ol>
Module 4	Exception Handling	<ol> <li>Exception Types</li> <li>Handling Exceptions (try, catch, finally)</li> <li>Custom Exceptions</li> </ol>
Module 5	Basic Input/Output	<ol> <li>Input using Scanner</li> <li>Output using System.out</li> <li>File I/O</li> </ol>
Module 6	Collections	<ol> <li>Arrays</li> <li>Lists (ArrayList, LinkedList)</li> <li>Maps (HashMap)</li> <li>Sets (HashSet)</li> <li>Iteration and Manipulation</li> </ol>
Module 7	Java Standard Library	<ol> <li>String Handling</li> <li>Date and Time</li> <li>Regular Expressions</li> <li>Math Functions</li> <li>Formatting and Localization</li> </ol>
Module 8	Multithreading	<ol> <li>Introduction to Threads</li> <li>Thread Lifecycle</li> <li>Synchronization</li> <li>Concurrency Issues</li> </ol>
Module 9	Java File I/O	<ul><li>1. File Handling</li><li>2. Reading and Writing Files</li></ul>

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#### **Practical Content:-**

Lab No.	Lab Name	Content
Lab 1	Setting Up Your Development Environment	1. Installing JDK and IDE (e.g., Eclipse or IntelliJ) 2. Creating Your First Java Program
Lab 2	Variables, Data Types, and Operators	<ol> <li>Working with Variables</li> <li>Data Type Conversions</li> <li>Arithmetic and Logical Operators</li> </ol>
Lab 3	Control Flow and Decision Making	<ol> <li>If-else Statements</li> <li>Switch Statements</li> <li>Loops (for, while, do-while)</li> </ol>
Lab 4	Object-Oriented Programming	<ol> <li>Creating Classes and Objects</li> <li>Implementing Inheritance</li> <li>Polymorphism and Abstraction</li> <li>Exception Handling in Practice</li> </ol>
Lab 5	Working with Collections	<ol> <li>Arrays and Lists</li> <li>Maps and Sets</li> <li>Iterating and Manipulating Collections</li> </ol>
Lab 6	Java Standard Library	<ol> <li>String Manipulation</li> <li>Date and Time Functions</li> <li>Regular Expressions</li> </ol>
Lab 7	Multithreading	<ol> <li>Creating and Managing Threads</li> <li>Synchronization Techniques</li> <li>Practical Multithreading Examples</li> </ol>
Lab 8	File I/O and Practical Applications	<ol> <li>Reading and Writing Files</li> <li>Practical Projects Involving File I/O</li> </ol>

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### Report

1. Event Title: VAP on "Basics and Core JAVA"

**2. Event Date:** 06/010/2023 to 11/10/2023

**3. Event Conduction Duration:** 5 day (Timings: 11 am to 5 pm)

4. Event Venue: Computer Seminar Hall

**5. Event Resource Person Details**: Prof. M V Korade

**6. Name of Event Coordinator:** Prof. M V Korade

**7. Expected Audience:** Students of TE.

**8. Number of Participants:** 58

#### 9. Event Objectives:

- 1. Provide students with a strong understanding of the fundamental concepts of Java.
- 2. Teach students the principles of object-oriented programming (OOP) in Java,
- 3. Familiarize students with implementation of programs in Java.



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#### **10.** Event Outcomes:

- 1. Students should have a strong grasp of Java's basic syntax and implementation.
- 2. Students should be able to design and implement classes and objects using OOP principles.
- 3. Students should be capable of debugging Java programs and writing basic unit tests.
- 4. Students should be able to write clean, well-structured code following Java coding standards and best practices.
- 5. Student should be able to answer the interview questions in placement drives.

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#### **Event Photos: -**









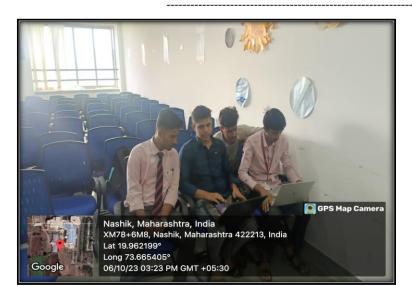




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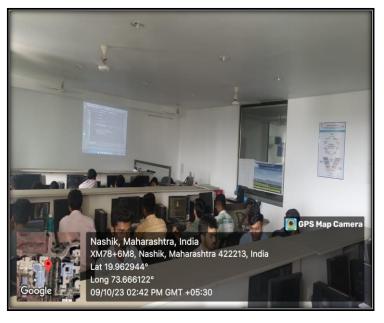


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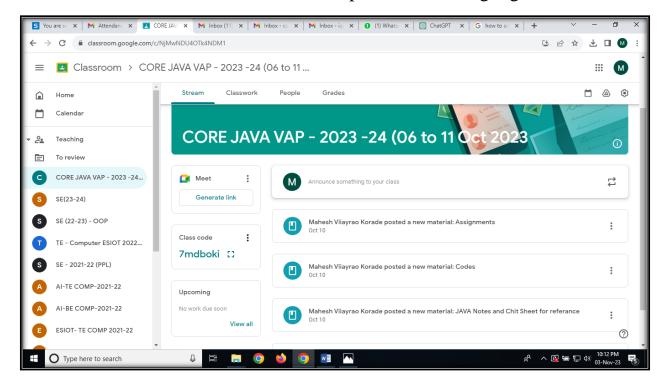


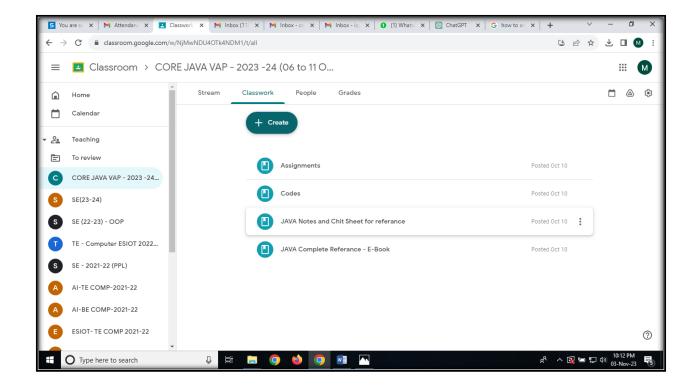
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#### **Google Classroom:**

Students can refer the code and material provided on the google classroom.





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#### **Student Certificates: -**







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51	PATIL VAIBHAV SHALIK	Ventil	Statil:	Saty	Paty	Faty	South	Seetal	Sector	Scorts	Sity
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