

# Gaurang Patel Computer Tutor

Since 2008

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## Training Course

Website Development Course

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CMS / Framework (Open Source)

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Software Testing Course

Programming Language Course

Computer Basic Course

Career Oriented Course

Basic Tally & Senior Accountant Course

**Live Project / Final Year Student Project Training**

BCA, MCA, BSC IT, MSC IT, B.Tech, M.Tech, Computer Engineering

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## Basic Java Course

**Assignment** : Provide By Us

**Lecture Notes** : Provide By Us

**Duration** : 1.5 Months(4 Days Lecture in a Week)

**Interview Preparation**

**Pre-Requirement : C and C++**

### Topics

### Details

**Introduction Of Java**

- Introduction of Java

	<ul style="list-style-type: none"> <li>• Post Install Configuration</li> <li>• Compiling and executing</li> </ul>
<b>Variable and Data Type</b>	<ul style="list-style-type: none"> <li>• Different Datatype</li> <li>• Variable and Array</li> <li>• Storing Different type of Data</li> <li>• Storing Limit</li> <li>• Create packaged Classes</li> <li>• Assign and Declaration with syntax</li> </ul>
<b>Operators &amp; Expressions</b>	<ul style="list-style-type: none"> <li>• Arithmetic Operators</li> <li>• Boolean Operators</li> <li>• Logical Operators</li> <li>• Binary Operators</li> </ul>
<b>Condition Statement &amp; Type Casting</b>	<ul style="list-style-type: none"> <li>• If..else</li> <li>• Switch Case</li> <li>• Convert one data type to another type data</li> <li>• Goto Statement</li> <li>• Branching Statements</li> <li>• Iterative Statement</li> </ul>
<b>Loop</b>	<ul style="list-style-type: none"> <li>• For Loop</li> <li>• While Loop</li> <li>• Do....While Loop</li> <li>• Break &amp; Continue Statement</li> <li>• Solving Problems</li> </ul>
<b>Array &amp; 2D Array</b>	<ul style="list-style-type: none"> <li>• Different type of declaration of array &amp; 2 D Array</li> <li>• Explain with Syntax</li> <li>•</li> </ul>

<b>String &amp; String Methods</b>	<ul style="list-style-type: none"> <li>• Declaration</li> <li>• Different methods of string</li> <li>• Problem Solving</li> </ul>
<b>Recursion &amp; function</b>	<ul style="list-style-type: none"> <li>• Uses of function and recursion</li> <li>• Declaration with syntax</li> <li>• Problem of function</li> </ul>
<b>Searching and sorting Algo</b>	<ul style="list-style-type: none"> <li>• Bubble Sort</li> <li>• Insertion Sort</li> <li>• Quick Sort</li> <li>• Merge Sort</li> <li>• Selection Sort</li> </ul>
<b>OOPs:</b>	<ul style="list-style-type: none"> <li>• Basic of OOPs</li> <li>• Fundamentals of Class &amp; Objects</li> <li>• Reference Variables</li> <li>• Member methods of a class</li> <li>• Constructors</li> <li>• Finalize Method</li> <li>• Overloading member methods</li> <li>• Passing and returning objects with methods</li> <li>• Access Control</li> <li>• Static Methods</li> <li>• Static Variables</li> <li>• Static Block</li> <li>• Unit Testing using Junit-5</li> <li>• Main 4 Pillers(Inheritance, Encapsulation, Polymorphism and abstraction understanding)</li> </ul>

	<ul style="list-style-type: none"> <li>• Restriction of class and in this uses keyword Ex. Super, this etc.</li> <li>• Real life example with code</li> </ul>
<b>Exception Handling</b>	<ul style="list-style-type: none"> <li>• Fundamentals of Exceptions</li> <li>• Type of Exceptions</li> <li>• Using try and catch keywords</li> <li>• Multiple Catches</li> <li>• Nesting of try blocks</li> <li>• Using throw keyword</li> <li>• Finally block</li> <li>• Predefine exceptions and their usage</li> <li>• User defines exceptions</li> <li>• How to handle exception?</li> <li>• Exception different case with code</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• Purpose of Interface</li> <li>• Defining an interface</li> <li>• Implementing Interface</li> <li>• Interface reference variables</li> <li>• Interface with variables</li> <li>• Extending interfaces</li> </ul>
<b>Multithreading</b>	<ul style="list-style-type: none"> <li>• Basics of Threads</li> <li>• Define Threads using Runnable</li> <li>• Define Thread using Thread Superclass</li> <li>• Multiple Threads</li> <li>• Implementing Interfaces</li> <li>• Interface Reference Variables</li> <li>• Thread Synchronization using Synchronized Methods</li> </ul>

	<ul style="list-style-type: none"><li>• Thread Synchronized Blocks</li><li>• Different Methods on Threads</li><li>• Syntax and working of threads</li><li>• Theory on threads</li></ul>
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