



Babu Jagjivan Ram Government Degree College

Narayanaguda, Hyderabad. (T.S) 500029

(Established – 1974)

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REPORT ON CERTIFICATE COURSE (2020-2021)

1. **Name of the Course: Java Programming**
2. **Department: Computer Science**
3. **Duration: 01.03.2021 – 30.04.2021 No. of hours – 30 Hours No. of days - 30 Days**
4. **Whether brochure containing details of curriculum, assessment, procedures, etc., is enclosed? Yes**
5. **Number of students enrolled: 168 No.s**
6. **Whether list of students is enclosed? (Yes/No): Yes**
7. **Brief Report of the Certificate Course along with the outcome:**

Objectives:

- To learn why Java is useful for the design of desktop and web applications.
- To learn how to implement object-oriented designs with Java.
- To identify Java language components and how they work together in applications.
- To design and program stand-alone Java applications.
- To learn how to design a graphical user interface (GUI) with Java Swing.
- To understand how to use Java APIs for program development.
- To learn how to extend Java classes with inheritance and dynamic binding.
- To learn how to use exception handling in Java applications.

Report: All the final year B.Sc Cs are instructed to pursue Java Programming with the intent of improving programming skills. The college is having collaboration with Spoken Tutorials, IIT Bombay, for self-learning through Online mode. Students with great interest and motivation pursued the certificate course Java Programming through Spoken Tutorials. The course has been coordinated by Dr. SambasivaRao Baragada, Assistant Professor of Computer Science.

Outcome: A total of 168 Students have enrolled for the course and out of which 138 No.s final year students have successfully completed the course Java Programming from the Spoken Tutorial, IIT Bombay. Programming skills of the course completed students have rapidly improved. The course has ignited strong motivation in learning advanced programming and also to pursue Post Graduation in the field of Computer Science.

Signature of I/C of Dept.:.....

Babu Jagjivan Ram Government Degree College
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NOTICE

26.02.2021

This is to inform all the students of B.A, B.Com and B.Sc that the department of computer science is organizing a certificate course titled “Java Programming” to be scheduled from 01.03.2021 through 30.04.2021 for a period of 30 Hours. The certificate course is to be pursued through online self-learning with the support of e-content provided by the Spoken Tutorials, IIT Bombay. Once the course is finished, students need to attend the online test provided by the Spoken Tutorials for getting course completion certificate.

Interested students are requested to contact the in-charge, department of computer science and register for the course on or before 27.02,2021.

Principal



BJR Government Degree College, Hyderabad
Department of Computer Science



Certificate Course on
Java Programming



About the Course: The course is organized in collaboration with Spoken Tutorials, IIT Bombay. The course is to be pursued through self-learning mode (Online) with the e-content provided by the Spoken Tutorials.

Important Dates: 01.03.2021 – 30.04.2021

Registration: Please register on or before 27.02.2021

Contact: In-charge, Department of Computer Science

Course Brochure

Certificate Course on Java Programming

Duration: 30 Hours

Syllabus

Indeed, JAVA is one of the most demanding programming languages in the IT world. Statistically, there are around **7-8 million** JAVA Developers across the world and the number is growing rapidly. Needless to say, JAVA has a lot of career opportunities in the tech market and the language will undoubtedly remain in demand in the upcoming times as well. Moreover, all the aspiring developers who want to make it big in the programming world can take JAVA into consideration. Additionally, you can learn this particular language efficiently by following a relevant pathway and with genuine hard work & dedication.

Before moving further, let's take a look at the origin of the language. **JAVA** was developed by **James Gosling** at *Sun Microsystems* in 1995 and the language runs on different platforms such as **Windows, Mac, Linux**, etc. The language is majorly used for building enterprise-scale web applications and Android apps. Also, the salaries of JAVA developers are comparatively higher in comparison to various other languages. Here in this article, we will let you know about the *structured roadmap or curriculum that you need to follow to learn JAVA in a mere 20 Hours!*

1. Start with the Fundamentals (Hour: 1-3)

Whether it be JAVA or any other programming language, you're always required to **understand the nature and basics of the language** before proceeding to the core concepts. You can start with the introduction of the language, its features, applications, etc. Meanwhile, you also need to know how to set up the JAVA environment in a system and can consider to create, compile, and execute your first Java Programs well. It will help you to get familiar with the basic syntax of the language and other aspects. You can explore several Integrated Development Environments (IDEs) as well such as *Eclipse, Net beans*, etc.

- Introduction to Java & Its Features
- Java Virtual Machine (JVM)
- Setting Up the JAVA Environment
- Hello World Program in JAVA
- Integrated Development Environments (IDEs) for JAVA

2. Learn Data Types, Variables & Conditional Statements (Hour : 4-6)

Once you'll get done with the basics, now you need to learn several other crucial concepts that can be considered as prerequisites before working on any language. You need to know *how to declare variables in JAVA, how to implement conditional statements, modifiers & operators in JAVA*, etc. You are also recommended to learn about the implementation of loop statements in JAVA. Moreover, you can **practice several basic programs** based on the relevant to particular topics for a better understanding of the concepts.

- Data Types | Variables
- Conditional Statements
- Loops in JAVA
- Modifiers | Operators
- Programs: Swapping of numbers, Factorial, Fibonacci Series, etc.

3. Understand Arrays & String Manipulation in JAVA (Hour: 7-10)

Okay, now take a step forward and start to learn the concepts like *Array, Strings*, etc in JAVA. You're required to understand how to create an Array & access its elements, Strings in JAVA, and other related concepts. Meanwhile, the working of Arrays in **JAVA** is different in comparison to **C/C++** as in Java all arrays are dynamically allocated and various other features as well. Also, you can explore here some additional tips such as *Type conversions, Scope of Variables*, etc. to get your concepts more clear.

- Arrays | Strings
- Array vs Array List in Java
- Scope of Variables
- Type Conversion in Java
- Switch Statement in Java

4. Get Familiar with Classes, Objects & Methods (Hour: 11-13)

After going through the above-mentioned topics, you will have a decent base that is required to learn any programming language. Now, you're required to understand the basic building blocks of JAVA i.e, Classes & Objects. You're required to understand what are the Classes in JAVA, how to create an Object, etc thoroughly. Moreover, you need to learn about the Methods in JAVA, what are their significance, and how to create & use them. You also need to learn about Constructors which is a crucial part of JAVA programming.

- Classes & Objects
- Methods in Java
- Method Overloading | Method Overriding
- Parameter Passing in JAVA
- Constructors in Java

5. Gear Up to the OOPs concepts (Hour: 14-17)

Now, its time to get into the core of JAVA programming – **Object-Oriented Programming (OOPs) Concepts**. JAVA is an Object-Oriented Programming Language that works on various principles such as *Polymorphism, Inheritance, Encapsulation, and Abstraction*. You need to command over these paradigms to learn the language more efficiently. Moreover, you will be able to understand the topics like overloading, overriding, etc. more credibly, once you'll get done with the understanding of OOPs concepts.

- Inheritance | Encapsulation
- Polymorphism | Runtime Polymorphism
- Abstraction
- Super Keyword | This Keyword
- Association, Composition, and Aggregation

6. Learn about Interfaces & Packages in JAVA (Hour: 18-21)

After going through the OOPs concepts, now you need to dive deeper into the JAVA programming world. You are required to cover topics like *Interfaces, Packages, Abstract Class*, etc. Precisely, an interface can also have methods and variables, but the methods declared in an interface are by default abstract. On the other hand, Packages in Java is a process to encapsulate a group of classes, sub-packages, and interfaces. Here you can cover several other topics also such as the difference between Abstract Class and Interface in Java, Nested Interface, etc.

- Interfaces | Packages
- Nested Interface | Marker Interface
- Abstract Classes
- Difference between Abstract Class & Interface
- Java.Time, Java.Lang, Java.Math and other packages

7. Go Through Exception Handling, I/O Streams & Multithreading Concepts

Now, its time to understand concepts like how to deal with exceptions and warnings in JAVA – *Exception Handling*, concurrent execution of two or more parts of a program – *Multithreading*, input and output streams in Java – *I/O Streams*, etc. Also, you need to learn about *Regular Expressions (Regex)* in Java for defining String patterns that can be used for searching, manipulating, and editing text. These concepts are very crucial to understand the deep functioning of JAVA and also plays a vital role in program or project development.

- Exception Handling
- Types of Exceptions
- Multithreading in JAVA
- Regular Expression in JAVA
- File Handling in JAVA

8. Understand Collection Framework, AWT & SWING (Hour: 22-30)

Okay, now you're required to emphasize on implementation aspects also of all the concepts and theoretical knowledge you've covered in the above stages. You need to know about the Collection Framework that defines several classes and interfaces to represent a group of objects as a single unit. Meanwhile, you also required to get familiar with Abstract Window Toolkit (AWT) and Swing in JAVA to work on several minor and major projects with Graphical User Interface (GUI).

- Collections in Java
- Generics in Java
- Java Swing | Simple Calculator
- Java AWT
- JAVA Projects

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Course Completion Certificate