



# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University  
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in



## Department of Computer Science and Engineering

Organizes

### Short Term Training Program

(Value added Course)

on

### Upgrading Skills in Java Programming

(15<sup>th</sup>, 22<sup>nd</sup>, 29<sup>th</sup> March, 2025, 12<sup>th</sup> April, 2025, and 13<sup>th</sup> April, 2025)

09.30 AM to 04.30 PM

#### Objectives:

- Enable students and faculty to enhance their understanding of programming concepts and their ability to apply them using the Java programming language.
- Enable the students to compete in the Placements confidently.
- Enable students to code their projects in an object-oriented approach.

**Resource Person:** Faculty expertise in JAVA Programming

**Intended Participants:** UG/PG Students, Faculty, Research Scholars, Industry Professionals

**Registration Link:** <https://forms.gle/rpVqzYzvksvj4hr9A>

**WhatsApp Group Link:** <https://chat.whatsapp.com/CW4EXo0WSKEK7XrEGDhWCx>

**Last Date for Registration:** 14-03-2025

**For Registration & Other Details, Contact:**

Dr. M. Venkata Krishna Reddy, Assistant Professor,

Mobile Number: 9948048462

- Note :**
- No Registration Fee.
  - An e-certificate will be issued to the participants.
  - 80% Attendance is mandatory for receiving a participation certificate.
  - 75% marks in exam conducted at the end of course.

**Venue:** Seminar Hall – C203

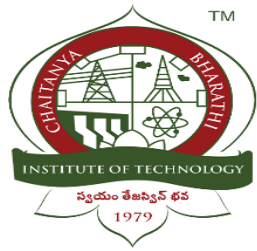
**Faculty Coordinators:**

Dr. M.Venkata Krishna Reddy, Asst. Professor, CSE Dept.

Ms. I. Srujana, Asst. Professor, CSE Dept.

Ms. Ch. Madhavi Sudha, Asst. Professor, CSE Dept.

Ms. A. Sangeetha, Asst. Professor, CSE Dept.



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COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**46**  
years

## Short Term Training Program (Value Added Course)

on

## Upgrading Skills in Java Programming

15<sup>th</sup>, 22<sup>nd</sup>, 29<sup>th</sup> March, 2025 and 12<sup>th</sup> & 13<sup>th</sup> April, 2025

Organized by

Department of Computer Science and Engineering

### About the Course:

- This short-term training program will include lectures, special case studies for applying the programming fundamentals, and hands-on experiments using Java programming Language. Now, Java programming language is being used for mobile programming, Internet programming, and many other applications compatible with distributed systems.
- **No Registration Fee.**

### SCHEDULE

	9:30 AM to 11:00 AM	11:15 to 12:45 PM	12:45 to 1:15 PM	1:15 PM to 2:45 PM	3:00 PM to 4:30 PM
Week-1 (15 (03-2025)	Inagural	Introduction to Java, Setting Up Java Development Environment, Writing Your First Java Program, Classes and Objects (Smt. I Srujana, Asst. Professor, CSE Dept.)	LUNCH BREAK	Core Java Fundamentals- Data Types, Variables and Operators, Control Flow Statements, Arrays (Dr. S. Chinaramu, Professor, CSE Dept./Smt. I Srujana, Asst. Professor, CSE Dept.)	Abstract classes and abstract methods, Interfaces and their implementation (Smt. E.Swathi, Asst. Professor, CSE Dept.)
Week-2 (22-03-2025)	Inheritance-Single and multilevel inheritance, super keyword (Dr. R Ravinder Reddy, Professor, CSE Dept.)	Compile-time and runtime polymorphism, Method overloading and overriding examples (Dr. M Venkata Krishna Reddy, Asst. Professor, CSE Dept.)		Packages-Creating and importing packages, java.lang, java.util, and other standard packages (Smt. S.Durga Devi, Asst. Professor, CSE Dept.)	Exception Handling- Types of exceptions (checked and unchecked) (Dr. B, Ramana Reddy, Asst. Professor, CSE Dept.)

Week-3 (29-03-2025)	Try-catch blocks and finally clause ,Throwing and propagating exceptions,Custom exceptions <b>(Dr. B, Ramana Reddy, Asst. Professor, CSE Dept.)</b>	Introduction to Multithreading,Threads and processes,Creating threads using Thread class and Runnable interface <b>(Dr. M Venkata Krishna Reddy, Asst. Professor, CSE Dept.)</b>	Thread Synchronization, Concurrency Utilities  <b>(Smt. I Srujana, Asst. Professor, CSE Dept.)</b>	Introduction to Collections,What is the Collections Framework, Collection interfaces (List, Set, Map) <b>(Smt. E.Swathi, Asst. Professor, CSE Dept.)</b>
Week-4 (12-04-2025)	ArrayList, LinkedList, HashSet, TreeSet, HashMap, <b>(Dr. R Ravinder Reddy, Professor, CSE Dept.)</b>	TreeMap, LinkedHashMap , Using Iterator and List Iterator <b>(Smt. A.Sangeetha, Asst. Professor, CSE Dept.)</b>	Basics of File I/O, Buffered Streams- BufferedReader and BufferedWriter <b>(Smt. S.Durga Devi, Asst. Professor, CSE Dept.)</b>	Serialization and Deserialization <b>(Smt. A.Sangeetha, Asst. Professor, CSE Dept.)</b>
Week-5 (13-04-2025)	Case Study on Inheritance and Exception Handling	Case Study on Multithreading	Case Study on Collections	Exams and Valedictory

**WHO SHOULD ATTEND: UG and PG Students, Faculty, and Research scholars**

**CERTIFICATE: Mandatory requirements**

- 1. Should have at least 80% of attendance after successful completion of the course**
- 2. 75% marks in exam conducted at the end of course**

**Faculty Team:**

Dr. M. Venkata Krishna Reddy, Asst. Professor, CSE Dept

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