



**CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY**

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



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

46
years

CIRCULAR

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C++ is a powerful, efficient, and versatile programming language that empowers developers to create high-performance applications across various domains, including system programming, design patterns, game development, artificial intelligence, and competitive coding. Learning C++ provides a strong programming foundation and opens up exciting career opportunities. Keeping this in view the departments of IT, CSE, AIML, AIDS and CET in collaboration with CDC is conducting a **Value added Course in C++** for all 2nd Sem students of CSE, IT, AIDS, AIML, CET. The course is planned for 30 hours as per the below schedule:

Date	Timings	Topics
08.02.2025	09:10AM to 04:10PM	Object-Oriented Design Goals, Object-Oriented Design Principles. Classes: Class Structure, Constructors and Destructor
09.02.2025: Practice Problems and Homework		
15.02.2025	09:10AM to 04:10PM	Classes and Memory Allocation, Demonstration of OOPs concepts, Exception Handling, Friends and Class Members
16.02.2025: Practice Problems and Homework		
22.02.2025	09:10AM to 03:10PM	Standard Template Library, Inheritance in C++, Examples, Multiple Inheritance, Interfaces and Abstract Classes, Templates: Class Templates, Function Templates
22.02.2025	03:15 PM to 03:45 PM	Certification Examination

Following are the resource persons:

Section	Venue	Resource Persons
AID1	AIDS Lab1	Mr. Naveen Raja SM
AID2	AIDS Lab2	Dr. Srinivasarao Madala
CIC	CB104	Ms. G. Mamatha / Ms Kavita Agrawal
CSE1	CR	Dr. G Kiran Kumar / Ms Vimala Manohara Ruth
CSE2	TPO Lab3	Dr. R.Ravinder Reddy
CSE3	TPO Lab2	Ms. A Sangeetha
CSE4	CR	Ms. Durga Devi / Dr M Venkata Krishna Reddy
CSE5	CB102	Ms. Isha Padhy
CSM1	CSE Lab#8	Dr. Ravi Uyyala
CSM2	TPO Lab#1	Ms. I Srujana
INF1	TPO Lab#4	Dr. T. Prathima / Dr A Sirisha
INF2	CR	Mr. N. Shiva Kumar
INF3	CR	Ms. P. Kiranmai / Ms. E Kalpana



The value added course is planned hands-on with the below objectives:

- 1. Lay a Strong Foundation in Object-Oriented Programming (OOP) Concepts**
Introduce students to core OOP principles such as encapsulation, inheritance, polymorphism, and abstraction to help them write modular and reusable code.
- 2. Enable Students to Write Efficient, Optimized, and Error-Free Code**
Develop problem-solving skills with best coding practices, debugging techniques, and performance optimization strategies in C++.
- 3. Help Students Implement Data Structures and Algorithms Effectively**
Train students in arrays, sorting, and searching algorithms, crucial for software development and interviews.
- 4. Prepare Students for Competitive Coding Contests Using C++**
Enhance logical thinking and speed coding abilities for hackathons, coding contests (like CodeChef, Codeforces, LeetCode, and ACM ICPC) using C++ and STL (Standard Template Library).
- 5. Facilitate a Smooth Transition to Other Programming Languages like Java and Python**
Strengthen programming fundamentals, making it easier to learn Java, Python, or other specialized domains such as Machine Learning, Web Development, and AI.

The faculty coordinators for the value added course are:

1. Ms A Sangeetha, CSE - asangeetha_cse@cbit.ac.in - 9949997684
2. Ms A Sirisha, IT - asirisha_it@cbit.ac.in, - 9885266048
3. Dr T Prathima, CDC - placements@cbit.ac.in, 9441044722

NOTE: All the 2nd Sem students from CSE, IT, AIML, AIDS and CET branches must attend the hands-on training sessions and clear certification examination.

Advantages:

1. Those who attend the training and clear the certification will get a certificate.
2. Activity points shall be claimed.
3. Interaction with accomplished senior students during the training.
4. Shall be able to write data structures programs with ease and efficiency.
5. Attendance will be recorded for all the sessions.

C.C. to

1. All Vice Principals / Advisors / Directors/ Associate Directors / Assistant Directors for kind information
2. Head-Physics, Head-English, Head-Mathematics, Head-Chemistry with a request to instruct the said 2nd Semester Students
3. All the expert faculty, student volunteers for information
4. HoDs of CSE/IT/AIML/AIDS/CET for kind information
5. Student Transport Incharge for Information and necessary arrangements
6. I/c Maintenance, I/c Electrical Maintenance, Security for information and necessary arrangements
7. HR for kind information


(PRINCIPAL)


Principal
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 076.

