Certificate in Advanced Data Structures with C and C++

The Certificate in Advanced Data Structures using C & C++ is a comprehensive program that builds on foundational data structures to equip learners with advanced concepts and techniques in data management and algorithm design. This course introduces critical topics such as binary search trees, AVL trees, graph algorithms, dynamic programming, and computational complexity. With a blend of theoretical foundations and practical applications, learners will enhance their problem-solving skills and develop optimized solutions for complex computational challenges

iLike

Fees ₹ 3000
(can be paid in 2 Installments)

Syllabus & Skills covered (60 hours)

- Deep understanding of advanced data structures and their practical applications.
- Proficiency in implementing complex algorithms using divide and conquer, dynamic programming, and greedy paradigms.
- Enhanced skills in designing and implementing graph algorithms for spanning trees and shortest paths.
- Ability to implement data structures and algorithms effectively in C and C++.
- Familiarity with computational complexity theory and the concepts of NP-completeness and NP-hardness.
- Strong skills in dynamic memory management and hashing techniques for efficient resource utilization and data access.
- Improved problem-solving and analytical skills for tackling complex computational challenges.
- Preparation for advanced topics in computer science and real-world software development scenarios.

Career Opportunities

- **Database Developer / Junior Software Engineer**
- **Backend Developer (Entry-Level)**
- **Algorithm Developer**
- **R&D or Optimization Intern**
- **Embedded Systems Developer**

SCAN ME

Find your nearest center