

DSA + Full Stack Development + CS Fundamentals

Course Details

Module 01

Introduction to Data Structures and Algorithms (DSA)

- Overview of Data Structures: Arrays, Linked Lists, Stacks, Queues, Trees, Graphs, etc.
- Introduction to Algorithms: Searching, Sorting, Dynamic Programming, Greedy Algorithms, etc.
- Data Structure Implementation and Operations in Java and C++
- Algorithm Design and Analysis Techniques
- Time and Space Complexity Analysis

Module 02

Full Stack Development

Frontend Development

- Introduction to Frontend Development
- HTML, CSS, JavaScript Fundamentals
- Frontend Frameworks: React.js for JavaScript, React Native for cross-platform mobile development
- UI/UX Design Principles
- Frontend Development Tools and Libraries

Backend Development

- Introduction to Backend Development
- Node.js and Express.js for server-side development
- Database Management Systems: MongoDB for NoSQL databases
- RESTful API Development
- Authentication and Authorization

Want to get placed as a software engineer ?

80%

Student Placed

44LPA

Highest Package

10LPA

Average Package

Module 03 ●

Computer Science Fundamentals

- Introduction to Computer Science
- Fundamentals of Operating Systems and Networking
- Principles of Database Management Systems
- Software Engineering Principles and Best Practices
- Object-Oriented Programming Concepts
- Design Patterns

Module 04 ●

Live Projects

- Collaborative Project Work in Teams
- Real-world Scenarios and Problem Solving
- Implementation of DSA and Full Stack Development Concepts
- Agile Methodologies and Project Management
- Deployment and Maintenance

Assessment and Certification ●

- Regular Quizzes and Assignments to Assess Understanding
- Final Project Presentation and Evaluation
- Course Completion Certificate

Duration & Prerequisites ●

- The course is designed to be completed in 4 months.
- Basic knowledge of programming concepts and familiarity with Java and/or C++ programming languages is recommended.

Who Should Enroll ●

- Students aiming for careers in product-based companies
- Individuals seeking to gain expertise in Data Structures, Algorithms, Full Stack Development, and Computer Science fundamentals
- Anyone interested in mastering both frontend and backend development technologies

Outcome

By the end of this course, participants will have a comprehensive understanding of Data Structures, Algorithms, Full Stack Development, and Computer Science fundamentals. They will be equipped with the skills necessary to build robust web applications, work on complex algorithmic problems, and pursue careers in product-based companies or tech startups.

Our Mentors



Vaibhav Goyal

NIT WARANGAL

(Mentor : DSA and Full Stack)



Drishti Mamtani

BITS PILANI HYDERABAD

(Mentor : Data Science
and Analytics Part)



Shubham Mondal

IIT KHARAGPUR

(Mentor : DSA and Coding)



Our Students Are Placed In

