



COURSE BROCHURE

Certified Data Structure Professional | CDSP

Introduction to the Course

Data Structure is an organized collection of data using which we can efficiently access and modify the data. Basically, it is a collection of data. **Data Structures** are the physical form of any data type. There are various data structures that we use like **stack, queue, tree, heap, forest**, etc. These different data structures have different logics behind their structural forms.

Also, they have different applications, like a **binary tree** is used for **machine learning algorithms**, etc. A **Certified Data Structure Professional | CDSP** is an essential factor for a company dealing in large amounts of data.

Due to these factors, the **Certified Data Structure Professional | CDSP** course by **IEM Labs** is getting the most popularity in **Kolkata** and other places. After the completion of this course the students will be able to successfully work with **Data Structures**.

The training sessions will be conducted by our industry experts who have been working in this field for the last 8-10 years. Using this certification credential students will be able to apply for **Data Structure Professionals** and related job roles.

Why to choose IEM Labs?

What makes this course much more exciting is that we provide **hands - on training** procedure through projects and practical based classes throughout the entire curriculum of the course.

We at **IEM Labs** provide both **Online** (through platforms like “**Google Hangout Meet**”, “**Go to Meeting**”, “**Zoom**”, etc) and **Offline** mode classes. The most beneficial point for a student to get trained by **IEM Labs** is “**One Year Lab Access**”, i.e. every student from the date of admission will have access to our “**Online Virtual Lab**” for practising and getting all notes, pre-recorded videos and tools according to their course for one year absolutely free of cost.

About the Course

Course Type - Basic

Eligibility Criteria: -

- **No basic knowledge is required.**
- **Minimum System Configuration Required: -**
 - **Intel i5 processor**
 - **8gb Ram**
 - **1tb Hard disk**

Batch Size - 5 students maximum.

Course Duration - 40 hours i.e. 2 classes every week.

Course Fee: -

- **Online: 11000 INR + 18% GST**
- **Offline: 10000 INR + 18% GST**

Training Location: -

- **Offline - Kolkata**
- **Online - Any**

Gradation System of IEM Labs

- **E Excellent (90% - 100% Marks)**
- **A+ Very Good (80% - 89% Marks)**
- **A Good (70% - 79% Marks)**
- **B+ Average (60% - 69% Marks)**
- **B Fair (50% - 59% Marks)**
- **C Fail (Below 50% Marks)**

Course Content

- Module - 1: Introduction to Data Structures
- Module - 2: Arrays and Pointers
- Module - 3: Recursion in Data Structures
- Module - 4: Dynamic Memory Allocation
- Module - 5: Linked List
- Module - 6: Stack
- Module - 7: Queue
- Module - 8: Array
- Module - 9: Binary Tree
- Module - 10: Binary Search Tree (BST)
- Module - 11: AVL Trees (Adelson, Velski & Landis)
- Module - 12: B+ Trees
- Module - 13: Hashing
- Module - 14: Graph
- Module - 15: Project

Frequently asked questions (FAQ's)

1. What must be the minimum age for doing this course?

Answer - There is no minimum age requirement for doing this course.

2. What must be the minimum qualification required for doing this course?

Answer - There is no minimum qualification required if the student meets the **Eligibility Criteria**.

3. Will I get any course material?

Answer - Yes, all materials are available on our online virtual lab, you can access them fully upto 1 year from the date of admission.

4. Will I get a certificate after this course?

Answer - Yes, certificate (hardcopy/softcopy) will be provided after the course which will consist of a grade provided by the assigned trainer as per the final project submitted.

5. In which language classes will be conducted?

Answer - Classes will be conducted mainly on English, Hindi & Bengali, mainly it will depend on majority criteria.

6. Is this for professionals, students or both?

Answer - This course is both for Professionals and Students.

7. Will there be any exam or project?

Answer - Yes, there will be 3 exams through the whole course duration and 1 project to be done after the course completion based on which Grade for certificate will be provided.

8. Will I have to carry my own laptop or it will be provided?

Answer - It is recommended that the student carry his/her own system because it makes their self-practise easier. In case of emergency laptop/desktop can be provided by us.

9. What kind of jobs roles can I apply after doing this course?

Answer - You can apply for any job roles related to the course.

10. Can I apply for an Internships at IEM Labs? What will be the selection criteria and procedure?

Answer - After completion of minimum 2 courses you can apply for an Internship. There will be a technical interview, based on the reports from Faculty and Technical Interview selection will be granted.

11. Are the Internships paid?

Answer - Yes, the Internships are "***Paid Internships***".

12. My question is not enlisted here, whom can I contact?

Answer - Feel free to get in touch with us at: -

- Email: iema@iemlabs.com
- Phone: India: +91 9163198148 | Canada: +1-604-431-979