How to access Visual Lab

virtual lab

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Virtual Labs
https://www.vlab.co.in

Virtual Labs

Virtual Labs by IIT Delhi. Remote access to simulation based Labs in various disciplines of Science and Engineering.

Results from vlab.co.in

Civil Engineering

Virtual Labs for remote access in Civil Engineering by IIT Delhi.

Computer Science

Virtual Labs for remote access in Computer Science ...

Electrical Engineering

Virtual Labs for remote access in Electrical Engineering by IIT Delhi.

Electronics & Communications

Virtual Labs for remote access in Electronics & Communications ...

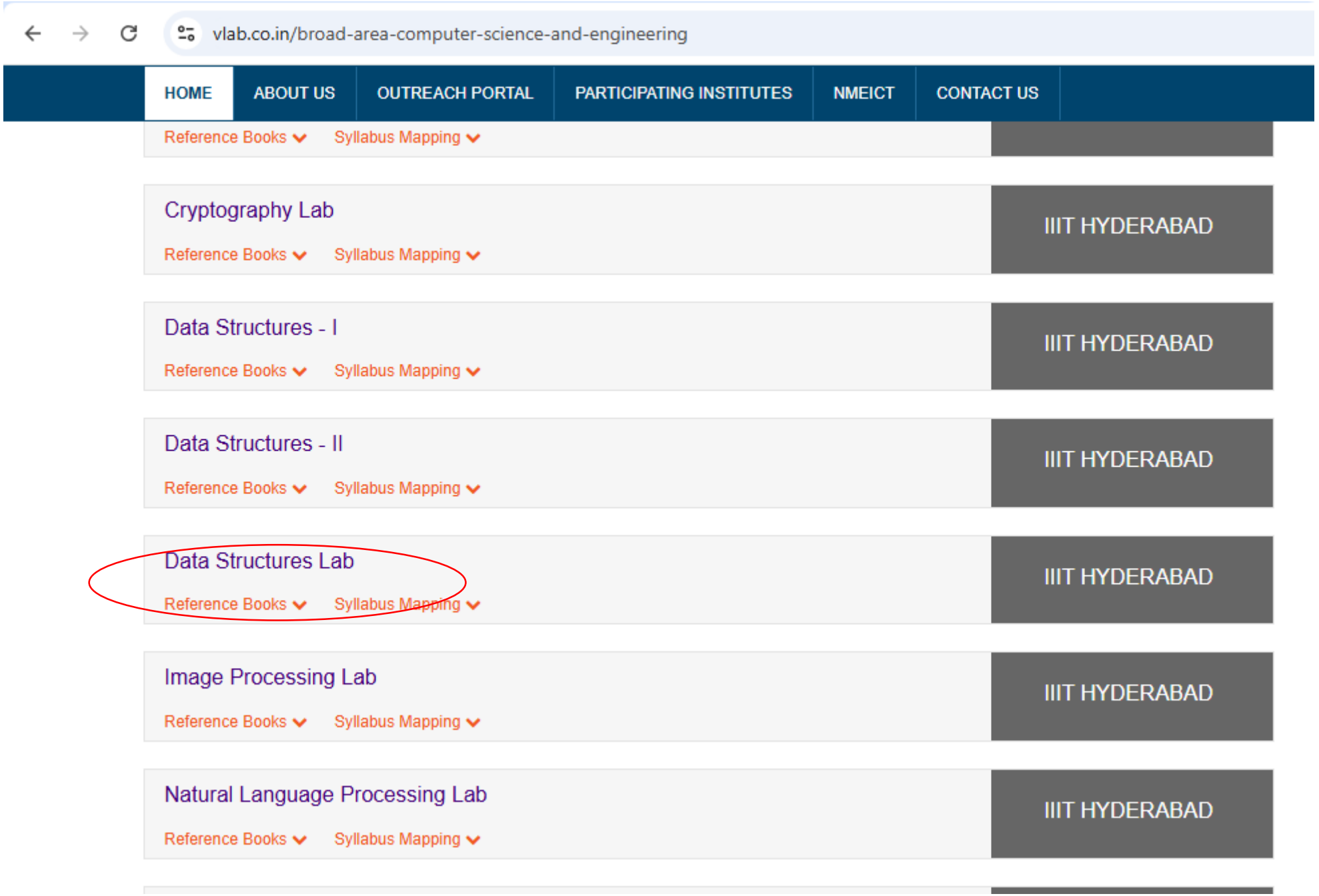
1. To provide remote-access to simulation-based Labs in various disciplines of Science and Engineering.

2. To enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.

3. To provide a complete Learning Management System around the Virtual Labs where the students/ teachers can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation.

Broad Areas of Virtual Labs

- Electronics & Communications
- Computer Science & Engineering
- Electrical Engineering
- Mechanical Engineering
- Chemical Engineering
- Biotechnology and Biomedical Engineering
- Civil Engineering
- Physical Sciences
- Chemical Sciences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Computer Science and Engineering

Data Structures

- Expression Evaluation using Stacks
- Sorting using Arrays
  1. Merge Sort
  2. Quick Sort
- Polynomials via Linked Lists
  1. Linked List
  2. Polynomial Arithmetic using linked lists
- Search Trees
- Expression Trees
- Graph Traversals
  1. Depth First Search

ds1-iiith.vlabs.ac.in/exp/quick-sort/index.html

Virtual Labs
An MoE Govt of India Initiative

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Quick Sort Experiment

Estimated Time

1 hour

Learning Objectives of the Experiment

In this experiment, we will be able to do the following:

- Given an unsorted array of numbers, generate a sorted array of numbers by applying Quick Sort.
- Given an unsorted array of numbers, we will understand how to partition an array. This is an important concept in Quick Sort which is used recursively on the partitioned arrays to sort the numbers.

ds1-iiith.vlabs.ac.in/exp/quick-sort/quick-sort/quicksort-demo.html

Quick Sort Experiment

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Instructions

7	6	10	5	9	2	1	15	7
0	1	2	3	4	5	6	7	8

Legend:

- Left Pointer
- Right Pointer
- Merge of Pointers
- Selected Pivot Element
- Swapping

Observations

Setup | Reset | Next