

VIRTUAL LABORATORY

Part A:- Click on following link to perform Virtual lab Experiment.

Virtual Lab Experiments to be performed.

Sr No	Department/ Discipline	Lab Name	Experiment Name	Direct Link
1.	Computer Engineering	Data Structures	Expression Evaluation using Stacks :	https://ds1-iiiith.vlabs.ac.in/exp/stacks-queues/index.html
2.	Computer Engineering	Data Structures	Sorting using Arrays : Merge Sort	https://ds1-iiiith.vlabs.ac.in/exp/merge-sort/index.html
3.	Computer Engineering	Data Structures	Sorting using Arrays : Quick Sort	https://ds1-iiiith.vlabs.ac.in/exp/quick-sort/index.html
4.	Computer Engineering	Data Structures	Polynomials via Linked Lists Linked List	https://ds1-iiiith.vlabs.ac.in/exp/linked-list/index.html
5.	Computer Engineering	Data Structures	Polynomials via Linked Lists	https://ds1-iiiith.vlabs.ac.in/exp/poly-arithmetic/index.html
6.	Computer Engineering	Data Structures	Search Trees	https://ds1-iiiith.vlabs.ac.in/exp/binary-search-trees/index.html
7.	Computer Engineering	Data Structures	Graph Traversals Depth First Search	https://ds1-iiiith.vlabs.ac.in/exp/depth-first-search/index.html
8.	Computer Engineering	Data Structures	Graph Traversals Breadth-First Search	https://ds1-iiiith.vlabs.ac.in/exp/breadth-first-search/index.html

Perform all above experiments till 22nd April 2023. After performance of all above experiments (Part A), you have to submit feedback (Part B).

Part B: Schedule of Virtual Lab Feedback 1 for Data Structures

Sr No	Date	Day	Time	Division
1	24 th April 2022	Monday	8:00 am- 10.am	A,B,C,D,E
2	25 th April 2022	Tuesday	8:00 am- 10.am	F,G,H,I J
3	26 th April 2022	Wednesday	8:00 am- 10.am	K,L M,N,O
4	27 th April 2022	Thursday	8:00 am- 10.am	P Q,R,S,T

As per the above timetable respective division will submit the virtual lab feedback 1 for 8 Assignments on scheduled date and time only.

Steps for Feedback submission-

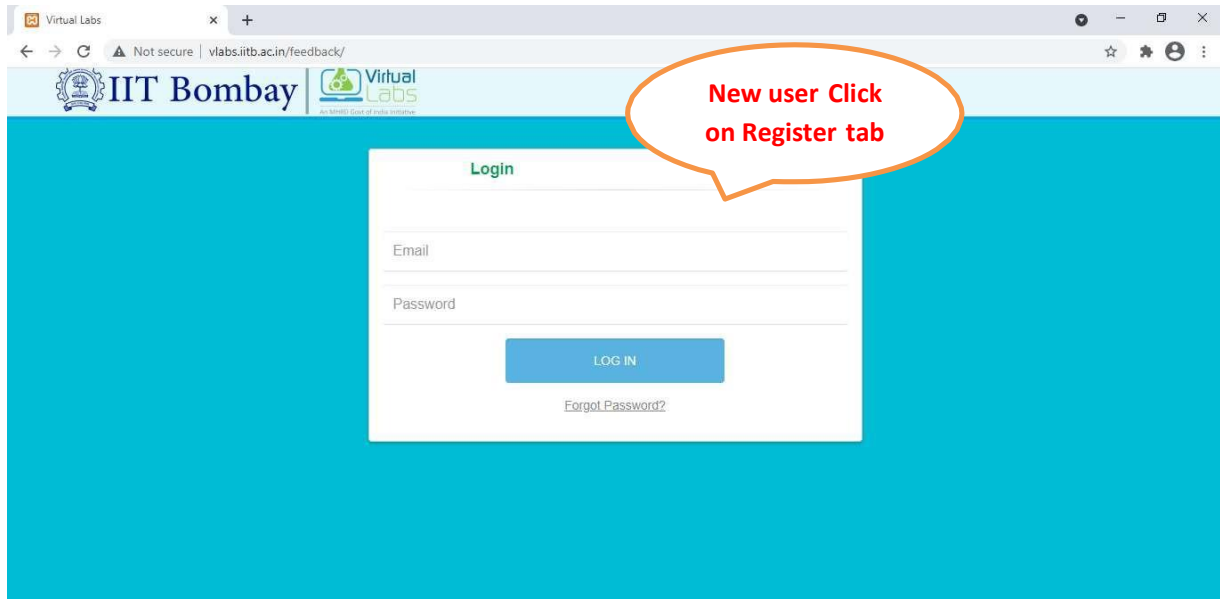
1. Click on link : <https://iitb.vlabs.co.in/feedback/>

2. Registration need to be done **only once**

This registration will be applicable to all the subjects throughout 4 years of B. Tech Course.

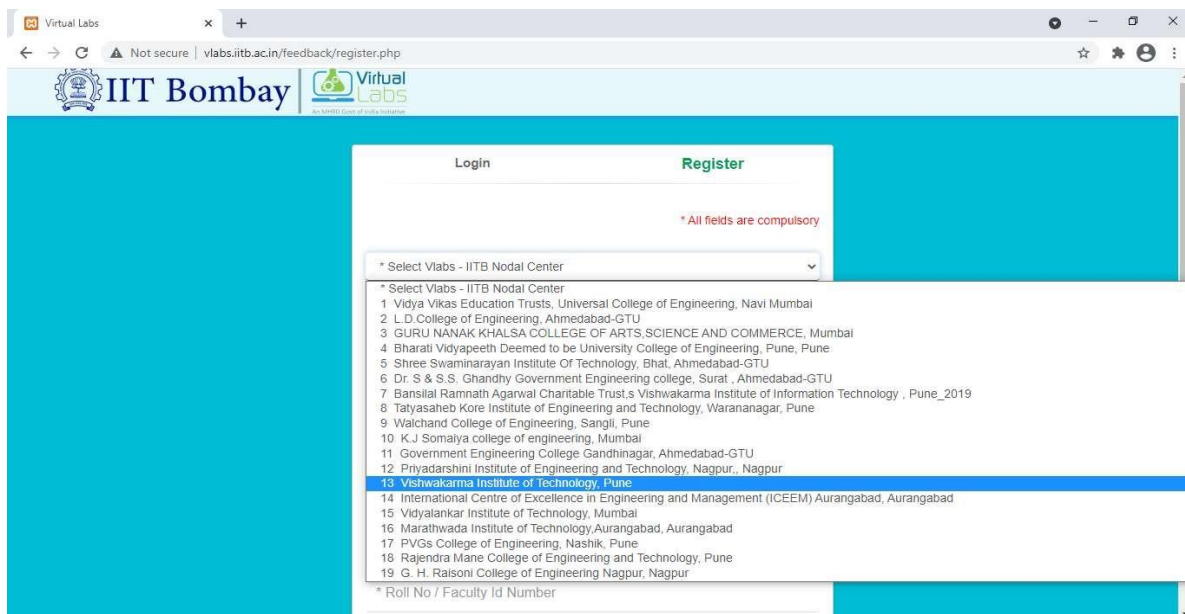
If already registered then directly Login using existing credentials

Else register by following steps.



The screenshot shows the IIT Bombay Virtual Labs feedback page. The page has a blue header with the IIT Bombay logo and the Virtual Labs logo. Below the header, there is a white box containing the Login form. The form has fields for Email and Password, a LOG IN button, and a link for Forgot Password?. A callout bubble with an orange border points to the Register tab, with the text "New user Click on Register tab".

3. Register through **Vishwakarma Institute of Technology, Pune** as a Nodal center(VLNC ID:13)



The screenshot shows the IIT Bombay Virtual Labs feedback page, specifically the Register form. The form has a dropdown menu for "Select Viabs - IITB Nodal Center". The dropdown is open, showing a list of institutions. The institution "13. Vishwakarma Institute of Technology, Pune" is selected and highlighted in blue. Below the dropdown, there is a text input field for "Roll No / Faculty Id Number".

4. Fill all the details carefully. Please Enter Student PRN number instead of Roll no.
5. Select branch in which you have taken the admission
(Note- for branches not mentioned in the list like AIDS Branch Click on Other Discipline and mention your respective branch name)

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Login Register

* All fields are compulsory

* Select Viabs - IITB Nodal Center

* Students ☒ Faculty ☐

* Select Course

If others, please specify

* Select Discipline

If others, please specify

* Select Semester

Roll No / Faculty Id Number

1549

Enter PRN instead of Roll no.

6. After successfully registration, click on Login.

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Login Register

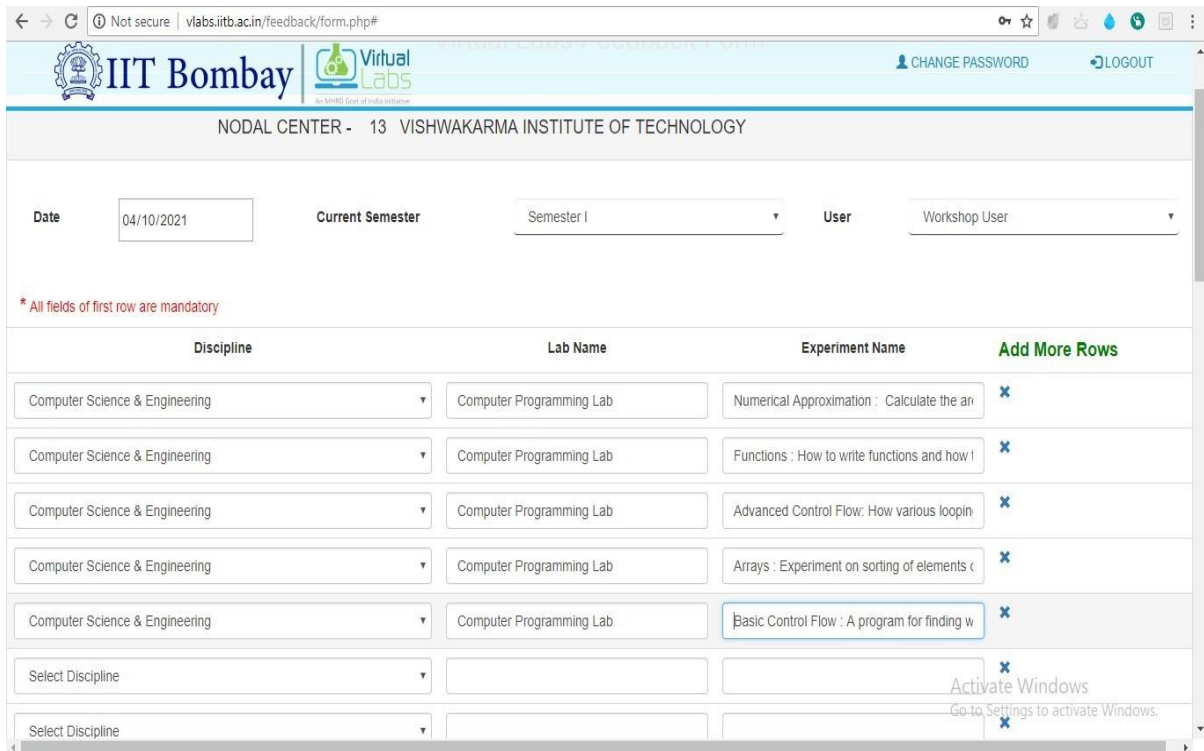
sagar.janokar@vit.edu

LOG IN

[Forgot Password?](#)

7. After successfully login Feedback home page is appeared as below.

- **Select Current Semester- II**
- **User-Workshop User**
- **For Discipline tab, Lab Name & Experiment Name tabs, please refer table given below.**
- **After selecting discipline, please type lab name and Experiment name.**
- **Important Note:** Students should *mention first 9 experiment statements as per given list in Feedback 1* in feedback form as shown in table.



The screenshot shows the IIT Bombay Virtual Labs Feedback Form. The page header includes the IIT Bombay logo, the text "Virtual Labs", and links for "CHANGE PASSWORD" and "LOGOUT". Below the header, it says "NODAL CENTER - 13 VISHWAKARMA INSTITUTE OF TECHNOLOGY". The form contains several input fields and dropdown menus for "Date", "Current Semester", and "User". Below these, a table with three columns: "Discipline", "Lab Name", and "Experiment Name" is displayed. The table has five rows of data, each with a blue 'X' icon in the "Experiment Name" column. A green "Add More Rows" button is located to the right of the table. At the bottom of the table, there are two rows with "Select Discipline" in the "Discipline" column and empty fields in the "Lab Name" and "Experiment Name" columns. A watermark "Activate Windows" is visible in the bottom right corner of the page.

Not secure | vlabs.iitb.ac.in/feedback/form.php#

IIT Bombay | Virtual Labs

CHANGE PASSWORD | LOGOUT

NODAL CENTER - 13 VISHWAKARMA INSTITUTE OF TECHNOLOGY

Date: 04/10/2021 | Current Semester: Semester I | User: Workshop User

* All fields of first row are mandatory

Discipline	Lab Name	Experiment Name	Add More Rows
Computer Science & Engineering	Computer Programming Lab	Numerical Approximation : Calculate the ar	X
Computer Science & Engineering	Computer Programming Lab	Functions : How to write functions and how I	X
Computer Science & Engineering	Computer Programming Lab	Advanced Control Flow: How various loopin	X
Computer Science & Engineering	Computer Programming Lab	Arrays : Experiment on sorting of elements <	X
Computer Science & Engineering	Computer Programming Lab	Basic Control Flow : A program for finding w	X
Select Discipline			X
Select Discipline			X

Activate Windows
Go to Settings to activate Windows.

Feedback form Table-

Sr No	Department/ Discipline	Lab Name	Experiment Name
1.	Computer Engineering	Data Structures	Expression Evaluation using Stacks :
2.	Computer Engineering	Data Structures	Sorting using Arrays : Merge Sort
3.	Computer Engineering	Data Structures	Sorting using Arrays : Quick Sort
4.	Computer Engineering	Data Structures	Polynomials via Linked Lists Linked List
5.	Computer Engineering	Data Structures	Polynomials via Linked Lists
6.	Computer Engineering	Data Structures	Search Trees
7.	Computer Engineering	Data Structures	Graph Traversals Depth First Search
8.	Computer Engineering	Data Structures	Graph Traversals Breadth-First Search

8. Answer all Questionnaire mentioned in Form.

The screenshot shows a web browser window with the URL vlabs.iitb.ac.in/feedback/form.php#. The page header includes the IIT Bombay logo and the Virtual Labs logo. The main content area is titled 'Basic Electronics Lab' and contains a questionnaire section. The questionnaire asks the user to indicate their agreement with the following statements:

- The degree to which the actual lab environment is simulated *
- The manuals were to be found helpful *
- The results of experiment were easily interpretable *

For each statement, there are five radio buttons corresponding to the following ratings: Excellent, Very Good, Good, Fair, and Poor.

9. Take **Screenshot** of your feedback form(*Rename this file as Div-Roll no. Ex. G-09*) and **UPLOAD** the same on following link.

https://drive.google.com/drive/folders/1tbOMzReOKIzRMNmmBtjlcLHdDpOSW0?usp=share_link

10. Click on Submit button.

The screenshot shows a web browser window with the URL `vlabs.iitb.ac.in/feedback/form.php#`. The page header includes the IIT Bombay logo and the Virtual Labs logo. The main content area contains three text input fields for feedback:

- How helpful is the system *
- Specify the problems/difficulties you faced while performing the experiments *
- Indicate aspects you found interesting about the experiments *

A blue "Submit" button is located at the bottom right of the form, circled in red. The Windows taskbar at the bottom shows the time as 9:44 PM on 29/03/2021.