



## VIRTUAL LABS: IIIT Hyderabad

(An Initiative of Ministry of Human Resource &  
Development Under the National Mission on  
Education through ICT)  
**www.vlab.co.in**



Thank you for your interest in hosting Virtual Labs workshop in your institute. Below are the pre-requisites laid down by MHRD-IIIT Hyd for hosting Virtual Labs workshop.

### ELIGIBILITY:

1. The Institute should be a Central/State University or Institute/college approved by **AICTE/UGC**.
2. The institute must have an auditorium with a seating capacity of at least 100, 1 Mbps Internet connection, and a multimedia projector.
3. The Institute has to provide a designated/common lab space having **35 PCs or more**, with a **minimum 1 Mbps** Internet broadband connection, and a multimedia projector.
4. In the event that the Internet network operates behind a firewall, the VLNC undertakes to open specific communication ports to facilitate VLab network traffic. Specifically ports 3306, 5900, 5902, and 8700 will need to be opened.
5. <http://www.java.com/en/download/index.jsp> must be downloadable through the Internet and Gmail should be accessible.
6. System configuration required for running Virtual Labs:
  - 1) Browser: Firefox, Chrome
  - 2) Plugins: Flash, Java 1.6 version, and IcedTea
  - 3) JavaScript should be enabled on the browser
  - 4) No pop-up blockers
  - 5) Internet connection (2-4 mbps)
  - 6) Need an Electronics Faculty while running some of the adders, multiplexers experiments.

### Terms and Conditions:

1. There is **no financial liability** of any party for using Virtual Labs. It is free to use.
2. The Institute **cannot charge** students for the use of Virtual Labs.
3. The institute must nominate a single point of contact for all logistical and technical coordination between the institute and Virtual Labs.

### Responsibilities of the College/Institute:

1. The institute will print checklists, attendance sheets, feedback forms, and brochures as needed.
2. Post first workshop, the institute will **conduct Virtual Labs** sessions for students and faculty members in the Institute on a regular basis preferably during lab hours.

3. The institute may take help from other faculty members and support staff to coordinate training programs in their respective institutes.

4. The institute will work towards **making Virtual Labs popular** among students.

5. The institute may volunteer to help in **Field Testing** the labs and in collation of end-user **Feedback** for the experiments of different Labs.

6. At the end of each semester, a progress report regarding Virtual Labs usage by the students must be submitted by the institute to IIIT Hyderabad, duly signed by the Director/Principal of the Institute.

7. Each institute may plan to organize at least **1 workshop per semester** as an outreach activity of Virtual Labs.

8. The institute must invite the faculty members and students from at least **three nearby Institutions** to attend the workshop. The targeted attendees in each workshop should be approximately 200. The list of participants should be shared with IIIT Hyderabad. The institute needs to share the following records as a report to IIIT Hyderabad.

- A. List of attendees (attendance sheet) in each workshop
- B. List of labs and experiments attempted by each attendee through the feedback form.
- C. Relevant photographs taken during the workshop

9. The institute will coordinate workshops. If required, the Outreach team from IIIT Hyderabad may be invited. The Outreach Team, IIIT Hyderabad should be informed about workshop dates and other training sessions organized by the Institute.

10. The IIIT Hyderabad Outreach team may visit the institute on workshop day to ensure smooth conduct of the workshop.

#### **Workshop Process:**

1. Virtual Labs Team organizes Workshop as well as hands on practice session on Virtual Labs for various Science & Engineering Institutions.
2. Faculty members participate in the workshop and are encouraged to express their interest in nominating their institutes for Virtual Labs workshop.
3. Then the Virtual Labs Team conducts faculty training sessions and workshops for students at the Institute.
4. Department wise demonstrations are given to the students.
5. Labs are demonstrated according to the syllabus of the ongoing semester.
6. Faculty members of the concerned department should be present during the demonstration.
7. After the demo of the Virtual Labs, hands on sessions are conducted.

- 8.** On completion of the demo and hands on, the faculty members and the students have to submit the feedback forms to the Virtual Labs team.
- 9.** These forms are compiled and analysed. The bugs are duly reported to the developers for debugging.
- 10.** At the end of the semester, the compiled report of the Virtual Labs usage must be submitted by the institutes.