



An Initiative of

Ministry of Human Resource & Development (MHRD)

under the aegis of

The National Mission on Education through ICT (NMEICT)



Objectives of the Virtual Lab Project

- To provide **remote-access to labs** in various disciplines of Science and Engineering.



- To cater to **students** at the UG level, PG level as well as to research scholars.

- To enable the students to learn at their **own pace**, and to arouse their **curiosity**.



- To provide a complete **Learning Management System** that includes web-resources, video-lectures, animated demonstrations and self evaluation.

Website: www.vlab.co.in



VIRTUAL LABS

[Home](#)

An MHRD Govt of India Initiative

An Initiative of Ministry of Human Resource Development (MHRD)
Under the National Mission on Education through ICT

Name of Lab

Broad Area

Any

Search



PARTICIPATING INSTITUTES



IIT DELHI



IIT BOMBAY



IIT KANPUR



IIT KHARAGPUR



IIT MADRAS

Objectives of the Virtual Labs:

- To provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars.
- To enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.
- To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self evaluation.
- To share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distances.

Announcements

- [Click here for the Lab Feedback Form.](#)
- [Virtual Labs on YouTube.](#)
- [Click here for NCs Registration.](#)
- [Click here for NCs Login.](#)
- [Click here for VLab](#)

One common website to access all Virtual Labs

Procedure to login, perform the experiments and feedback

Visit Virtual lab IIT Bombay

Click on below link

<http://vlabs.iitb.ac.in/vlab/>

VIRTUAL LAB IIT BOMBAY SITE



[Intro](#)

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Welcome to Virtual Labs



PROCEDURE TO LOGIN FOR IIT BOMBAY VIRTUAL LAB

Open Virtual lab IIT Bombay Site

Link given below

<http://vlabs.iitb.ac.in/vlab/>

Virtual lab IIT Bombay site will open

Click on



Out reach → Feedback → Nodal center feedback



Contents in register page

Login

Register

* All fields are compulsory

* Select Vlabs - IITB Nodal Center

*
 Students Faculty

* Select Course

If others, please specify

* Select Discipline

If others, please specify

* Select Semester

* Roll No / Faculty Id Number

72. GOVERNMENT
ENGINEERING
COLLEGE,VALSAD ,GUJARAT

STUDENT

DIPLOMA

ELECTRICAL ENGG.

3rd Semester/5th Semester

Enrollment number

* First Name



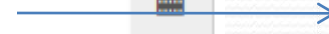
Eg. Harshal

* Last Name



Eg.Sharma

* Date of Birth



Eg. yyyy/mm/dd

* Email Address



Make a gmail account

* 10 digit Mobile Number



Mobile number

* Password



123456

* Confirm Password



123456

After entering your details use the validation code to register yourself

your user id will be you Google account email address

password should be strictly 123456

Validation code:

pdhz98

Enter the code above here :

Can't read the image? click [here](#) to refresh.

REGISTER NOW

List of Electrical Experiments to perform in Virtual lab

2nd Semester- ELECTRICAL ENGINEERING DC CIRCUITS

IIT KHARAGPUR- BASIC ELECTRONICS LAB

- To perform Ohm's Law

<http://vlabs.iitkgp.ernet.in/be/exp4/index.html>

- Verification of Thevenin's Theorem

<http://vlabs.iitkgp.ernet.in/asnm/exp3/index.html>

- Verification of Superposition Theorem

<http://vlabs.iitkgp.ernet.in/asnm/exp5/index.html#>

3rd Semester – Electrical Engineering

AC CIRCUITS

IIT KHARAGPUR- ANALOG SIGNALS, NETWORK & MEASUREMENT LAB

- Three phase power measurement

<http://vlabs.iitkgp.ernet.in/asnm/exp7/index.html>

- R-L-C Analysis

<http://vlabs.iitkgp.ernet.in/asnm/exp12/index.html>

- Magnetic field behavior in single coil

<http://vem->

iitg.vlabs.ac.in/Magnetic_Field_Behaviour_in_single_coil.html

- Rotating Magnetic field behavior in two coils

<http://vem->

<http://iitg.vlabs.ac.in/Rotating%20Magnetic%20Field%20Behaviour%20in%20two%20coils.html>

- Rotating Magnetic field behavior in three coils

<http://vem->

<http://iitg.vlabs.ac.in/Rotating%20Magnetic%20Field%20Behaviour%20in%20three%20coils.html>

ELECTRONIC CIRCUITS AND COMPONENTS

IIT KHARAGPUR – BASIC ELECTRONICS LABORATORY

- **VI Characteristics of Diode**

<http://vlabs.iitkgp.ernet.in/be/exp5/index.html>

- **Half Wave Rectification**

<http://vlabs.iitkgp.ernet.in/be/exp6/index.html>

- **Full Wave Rectification**

<http://vlabs.iitkgp.ernet.in/be/exp7/index.html>

- **Capacitive Rectification**

<http://vlabs.iitkgp.ernet.in/be/exp8/index.html>

- **Zener Diode voltage regulator**

<http://vlabs.iitkgp.ernet.in/be/exp10/index.html>

- **BJT Common Emitter Characteristics**

<http://vlabs.iitkgp.ernet.in/be/exp11/index.html>

- **BJT Common Base Characteristics**

<http://vlabs.iitkgp.ernet.in/be/exp12/index.html>

ELECTRICAL INSTRUMENTATION

IIT KHARAGPUR- ANALOG SIGNAL, NETWORK AND MEASUREMENT LAB

- To study the Kelvin Double Bridge for Low resistance measurement

<http://vlabs.iitkgp.ernet.in/asnm/exp10/index.html>

- Measurement of Self Inductance of High Quality Factor Coil by Hay's Bridge

<http://vlabs.iitkgp.ernet.in/asnm/exp9/index.html>

- Measurement of Capacitance by Wien Series Bridge

<http://vlabs.iitkgp.ernet.in/asnm/exp16/index.html>

- Measurement of Self Inductance by Maxwell's Bridge

<http://vlabs.iitkgp.ernet.in/asnm/exp11/index.html>

- Measurement of Capacitance by De Sauty's (Modified) bridge

<http://vlabs.iitkgp.ernet.in/asnm/exp17/index.html>

- Measurement of Self Inductance accurately by Anderson's Bridge

<http://vlabs.iitkgp.ernet.in/asnm/exp23/index.html>

AFTER SUCCESSFULLY PERFORMING THE EXPERIMENT LOGIN TO UR VIRTUAL LAB IIT BOMBAY ACCOUNT WITH UR REGISTERED USER ID

Login **Register**

hbs.gpv@gmail.com

.....


LOG IN

[Forgot Password?](#)




VIRTUAL LAB FEEDBACK FORM

Virtual Labs Feedback Form

NODAL CENTER - 72 GOVERNMENT ENGINEERING COLLEGE, VALSAD

Date	<input type="text" value="06/24/2018"/>	Current Semester	<input type="text" value="Select Semester"/>  3 RD / 5 TH SEM	User	<input type="text" value="Select User"/> Individual
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* All fields of first row are mandatory

Discipline	Lab Name	Experiment Name	
<input type="text" value="electrical"/>	Basic Electronics Virtual lab	Perform ohm 's law	
<input type="text" value="Select Discipline"/>	<input type="text"/>	<input type="text"/>	
<input type="text" value="Select Discipline"/>	<input type="text"/>	<input type="text"/>	

Questionnaire

Please indicate your agreement with the following statements

The degree to which the actual lab environment is simulated *

Excellent Very Good Good Fair Poor

The manuals were to be found helpful *

Excellent Very Good Good Fair Poor

The results of experiment were easily interpretable *

Excellent Very Good Good Fair Poor

Please tell your agreement with the following statements

Did you get the feeling of actual lab while performing the experiments *

Yes No

Do you think performing experiments through Virtual Labs is more challenging than the real lab experiments *

Yes No

Do you think performing experiments through Virtual Labs gives scope for more innovative and creative research work *

Yes No

Did you go through the manual / step by step method before before performing the live experiments *

Yes No

How helpful is the system *

Specify the problems/difficulties you faced while performing the experiments *

Indicate aspects you found interesting about the experiments *

Submit

Want Something to Share !



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: +91-11-26597244



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Thank You



A Journey From Concept To Reality !