



Shri Shivaji Education Society Amravati's  
**SHRI SHIVAJI SCIENCE AND ARTS COLLEGE**  
**CHIKHLI, DIST. BULDANA (MS).**



॥ ज्ञानम् परम् ध्येयम् ॥

## DEPARTMENT OF PHYSICS

List & Links of the virtual experiments to be performed by the students of  
**B.Sc.-II (Semester-IV)**

Sr. No.	Experiment	Link	Note
1	a) To determine the Hall voltage developed across the sample material. b) To calculate the Hall coefficient and the carrier concentration of the sample material.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=879&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=879&amp;cnt=1</a>	You have to register first to Amrita VirtualLab to access this expt.
2	To draw the static current-voltage (I-V) characteristics of a junction diode.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=1522&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=1522&amp;cnt=1</a>	You have to register first to Amrita VirtualLab to access this expt.
3	To study Half Wave Rectification	<a href="http://vlabs.iitkgp.ac.in/be/exp6/index.html">http://vlabs.iitkgp.ac.in/be/exp6/index.html</a>	You directly access this expt. from the given link.
4	To study Full Wave Rectification	<a href="http://vlabs.iitkgp.ac.in/be/exp7/index.html">http://vlabs.iitkgp.ac.in/be/exp7/index.html</a>	You directly access this expt. from the given link
5	To study common emitter characteristics of transistor	<a href="http://vlabs.iitkgp.ac.in/be/exp11/index.html">http://vlabs.iitkgp.ac.in/be/exp11/index.html</a>	You directly access this expt. from the given link
6	To study common base characteristics of transistor	<a href="http://vlabs.iitkgp.ac.in/be/exp12/index.html">http://vlabs.iitkgp.ac.in/be/exp12/index.html</a>	You directly access this expt. from the given link
7	Study of basic properties of Operational Amplifier: Inverting and Non-Inverting Amplifiers	<a href="http://vlabs.iitkgp.ac.in/be/index.html">http://vlabs.iitkgp.ac.in/be/index.html</a>	You directly access this expt. from the given link.
8	Study of Differentiator and Integrator using Operational Amplifier	<a href="http://vlabs.iitkgp.ac.in/be/exp18/index.html">http://vlabs.iitkgp.ac.in/be/exp18/index.html</a>	You directly access this expt. from the given link
9	To study Zener Diode-Voltage Regulator	<a href="http://vlabs.iitkgp.ac.in/be/exp18/index.html">http://vlabs.iitkgp.ac.in/be/exp18/index.html</a>	You directly access this expt. from the given link
10	To study the variation of magnetic field with distance along the axis of a circular coil carrying current.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=192&amp;sim=972&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=192&amp;sim=972&amp;cnt=1</a>	You have to register first to Amrita VirtualLab to access this expt.

Mr. N. B. Thakare

Assistant Professor & Head,

Shri Shivaji Science & Arts College, Chikhli, Dist. Buldana

[www.ssesa.org](http://www.ssesa.org) [www.shivajichk.ac.in](http://www.shivajichk.ac.in) email: [shivajichk@rediff.com](mailto:shivajichk@rediff.com)

***We Educate, Inspire and Empower...***



Shri Shivaji Education Society Amravati's  
**SHRI SHIVAJI SCIENCE AND ARTS COLLEGE**  
**CHIKHLI, DIST. BULDANA (MS).**



॥ ज्ञानम् परम् ध्येयम् ॥

## Procedure to Register for Amrita Virtual Lab

- 1) GO TO <https://vlab.amrita.edu/>
- 2) CLICK ON **Login**

**Developed @**  
Amrita Vishwa Vidyapeetham

**Inspiration and Guiding Light, Amma**  
Sri Mata Amritanandamayi Devi  
Chancellor, Amrita Vishwa Vidyapeetham

**Download Brochure**

**Virtual Labs at Amrita Vishwa Vidyapeetham**

**Biotechnology and Biomedical Engineering**  
Neurophysiology, Cell biology, Immunology Lab, Microbiology, Molecular Biology, Population Ecology, Biochemistry Virtual Labs...

**Chemical Sciences**  
Physical Chemistry, Organic Chemistry, Inorganic Chemistry Virtual Labs...

**Physical Sciences**  
Mechanics, Thermodynamics, Optics, Electricity and Magnetism, Basic Electric Circuits, Modern Physics Virtual Labs...

**Computer Science**  
Wireless Sensor Network, Remote Triggered Lab

**News just in...**

Top 5 Nodal centres in India, based on Virtual Lab usage

Nodal Coordinator details update form

- 3) CLICK ON **Create an account**

**Sign In**

**Sign In using Open ID**  
If you avail any of the below mentioned services, you already have an OpenID. Please choose the service used to associate it with our website. You will be taken to your provider's website and our website will never store your password or other personal information.  
We use the name and email address that provider gives us to set up your account. We hate spam as much as you do and will never share your email with a third party service.

**Please enter your user name and password.**

User Name/Email:  Support Email

Password:

**Login**

[Create an account](#) || [Forgot Password?](#)

**Difficulties in logging in?**  
If you face any issues while trying to login, please send an email to [collab.tools@amrita.ac.in](mailto:collab.tools@amrita.ac.in) from your registered email address.

[www.sesa.org](http://www.sesa.org) [www.shivajichk.ac.in](http://www.shivajichk.ac.in) email: [shivajichk@rediff.com](mailto:shivajichk@rediff.com)

***We Educate, Inspire and Empower...***



Shri Shivaji Education Society Amravati's  
**SHRI SHIVAJI SCIENCE AND ARTS COLLEGE**  
**CHIKHLI, DIST. BULDANA (MS).**



॥ ज्ञानम् परम् ध्येयम् ॥

**4) Enter Your Details in The Given Fields**

**Registration**

**Enter your details**

Email id:  \*

Confirm Email id:  \*

Password:  \*

Confirm Password:  \*

First Name:

Last Name:

Age Group:  --Select--

Gender:  Male  Female

Phone Number:

Profession:  --Select--

College:

Subject:

University:

Country:  --Select--

State:

**Please use your existing account.**

If you avail any of the below mentioned services, you already have an OpenID. Please choose the service used to associate it with our website. You will be taken to your provider's website and our website will never store your password or other personal information.

We use the name and email address that provider gives us to set up your account. We hate spam as much as you do and will never share your email with a third party service.

OR

**5) GO BACK and LOGIN WITH YOUR E-mail ID and Password.**