



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



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## 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	To construct a Colpitts oscillator and to measure its output frequency.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=1142&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=1142&amp;cnt=1</a>	You have to register first to Amrita Virtual Lab to access this expt.
2	To design and construct a Hartley oscillator and to measure its output frequency.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=1137&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=1137&amp;cnt=1</a>	You have to register first to Amrita Virtual Lab to access this expt.
3	To design and construct a Wein bridge oscillator and to measure its output frequency	<a href="http://vlabs.iitb.ac.in/vlab/electrical/exp7/index.html">http://vlabs.iitb.ac.in/vlab/electrical/exp7/index.html</a>	You directly access this expt. from the given link
4	To study the I-V Characteristics of LEDs	<a href="http://vlabs.iitb.ac.in/vlab/electrical/exp12/index.html">http://vlabs.iitb.ac.in/vlab/electrical/exp12/index.html</a>	You directly access this expt. from the given link
5	Determination of Planck's constant using LED	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=195&amp;sim=547&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=195&amp;sim=547&amp;cnt=1</a>	You have to register first to Amrita Virtual Lab to access this expt.
6	a) To experimentally demonstrate the concept of Millikan's oil drop experiment. b) To find the terminal velocity of the drop. c) To find the charge on a drop.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=195&amp;sim=357&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=195&amp;sim=357&amp;cnt=1</a>	You have to register first to Amrita Virtual Lab to access this expt.
7	Design and setup an astable multivibrator and calculate the time period and duty cycle of the output waveform.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=1167&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=1167&amp;cnt=1</a>	You have to register first to Amrita Virtual Lab to access this expt.
8	To study Frequency response of Common Emitter Amplifier	<a href="http://vlabs.iitkgp.ac.in/be/exp13/index.html">http://vlabs.iitkgp.ac.in/be/exp13/index.html</a>	You directly access this expt. from the given link
9	To study the emission spectra of Hydrogen, Neon and mercury vapours.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=195&amp;sim=359&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=195&amp;sim=359&amp;cnt=1</a>	You have to register first to Amrita Virtual Lab to access this expt.
10	Any two experiments from Amrita Virtual Lab	<a href="https://vlab.amrita.edu/?sub=1">https://vlab.amrita.edu/?sub=1</a>	You have to register first to Amrita Virtual Lab to access this expt.
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11			You have to register first to Amrita Virtual Lab to access this expt.

**Mr. N. B. Thakare**  
Assistant Professor  
Shri Shivaji Science & Arts College,  
Chikhli, Dist. Buldana

### Procedure to Register for Amrita Virtual Lab

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

The screenshot shows the Amrita Virtual Lab website. At the top, there is a navigation bar with links for Home, Project, Workshop, Nodal Centres, News & Events, Publications, Survey, Contact us, and Login. Below the navigation bar, there is a featured simulation section titled 'Neuronal Model' with a 'Read more...' link. To the right of this section, there is a large image of a brain. Below the featured simulation, there is a section titled 'Virtual Labs at Amrita Vishwa Vidyapeetham' with a 'News just in...' link. This section lists various virtual labs categorized by Biotechnology and Biomedical Engineering, Chemical Sciences, Physical Sciences, and Computer Science. A 'Download Brochure' button is also visible.

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



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**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.

Google, YAHOO!, Facebook, myspace, OpenID, AMRITA VISHWA VIDYAPEETHAM

**OR**

**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 from your registered email address.

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#### 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:

Cancel Register

**OR**

**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.

Google, YAHOO!, Facebook, myspace, OpenID, AMRITA VISHWA VIDYAPEETHAM

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