

*Shri Shivaji Education Society Amravati's*

**Shri Shivaji Arts, Commerce and Science College,**

**Motala, Dist. Buldana**

**Department of Physics**

**VIRTUAL LABORATORY**

**B.Sc. First year (First Semester)**

<b>Sr. No.</b>	<b>Name of Experiment</b>	<b>Link</b>
01.	TO DETERMINE SURFACE TENSION OF MERCURY BY QUINKE'S METHOD.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=192&amp;sim=854&amp;cnt=4">https://vlab.amrita.edu/?sub=1&amp;brch=192&amp;sim=854&amp;cnt=4</a>
02.	YOUNG'S MODULUS BY VIBRATION METHOD.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=280&amp;sim=1509&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=280&amp;sim=1509&amp;cnt=1</a>
03.	TO DETERMINE THE YOUNG'S MODULUS OF THE MATERIAL OF A GIVEN BEAM SUPPORTED ON TWO KNIFE-EDGES AND LOADED AT THE MIDDLE POINT.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=280&amp;sim=1518&amp;cnt=4">https://vlab.amrita.edu/?sub=1&amp;brch=280&amp;sim=1518&amp;cnt=4</a>
04.	STUDY OF A COMPOUND PENDULUM (BAR PENDULUM) AND DETERMINATION OF (I) THE VALUE OF THE ACCELERATION DUE TO GRAVITY (G) IN THE LABORATORY.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=280&amp;sim=210&amp;cnt=4">https://vlab.amrita.edu/?sub=1&amp;brch=280&amp;sim=210&amp;cnt=4</a>
05.	TO DETERMINE THE VALUE OF ACCELERATION DUE TO GRAVITY AT A PLACE BY MEANS OF KATER'S REVERSIBLE	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=280&amp;sim=518&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=280&amp;sim=518&amp;cnt=1</a>
06.	TO DETERMINE THE MOMENT OF INERTIA OF A FLYWHEEL ABOUT ITS OWN AXIS OF ROTATION.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=74&amp;sim=571&amp;cnt=4">https://vlab.amrita.edu/?sub=1&amp;brch=74&amp;sim=571&amp;cnt=4</a>

### **B.Sc. First year (Second Semester)**

<b>Sr. No.</b>	<b>Name of Experiment</b>	<b>Link</b>
01.	VERIFICATION OF THEVENIN'S THEOREM.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=75&amp;sim=328&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=75&amp;sim=328&amp;cnt=1</a>
02.	VERIFICATION OF NORTON'S THEOREM.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=75&amp;sim=312&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=75&amp;sim=312&amp;cnt=1</a>
03.	VERIFICATION OF KIRCHOFF'S LAW, USING ELECTRICAL NETWORK	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=75&amp;sim=217&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=75&amp;sim=217&amp;cnt=1</a>

### **B.Sc. SecondYear (Third Semester)**

<b>Sr. No.</b>	<b>Name of Experiment</b>	<b>Link</b>
01.	TO DETERMINE CHARACTERISTICS OF CE TRANSISTOR -INPUT CHARA.	<a href="http://vlabs.iitkgp.ernet.in/be/exp11/bjtcein_ver1.html">http://vlabs.iitkgp.ernet.in/be/exp11/bjtcein_ver1.html</a>
02.	TO DETERMINE CHARACTERISTICS OF CE TRANSISTOR -OUTPUT CHARA.	<a href="http://vlabs.iitkgp.ernet.in/be/exp11/bjtceop_ver1.html">http://vlabs.iitkgp.ernet.in/be/exp11/bjtceop_ver1.html</a>
03.	TO DETERMINE CHARACTERISTICS OF CB TRANSISTOR -INPUT CHARA	<a href="http://vlabs.iitkgp.ernet.in/be/exp12/bjtcbin_ver1.html">http://vlabs.iitkgp.ernet.in/be/exp12/bjtcbin_ver1.html</a>
04.	TO DETERMINE CHARACTERISTICS OF CB TRANSISTOR -OUTPUT CHARA	<a href="http://vlabs.iitkgp.ernet.in/be/exp12/bjtcbop_ver1.html">http://vlabs.iitkgp.ernet.in/be/exp12/bjtcbop_ver1.html</a>
05.	TO DETERMINE CHARACTERISTICS OF CB	<a href="http://vlabs.iitkgp.ernet.in/be/exp12/bjtcbop_ver1.html">http://vlabs.iitkgp.ernet.in/be/exp12/bjtcbop_ver1.html</a>

Sr. No.	Name of Experiment	Link
	TRANSISTOR	
06.	TO STUDY ZENER REGULATED POWER SUPPLY	<a href="http://vlabs.iitkgp.ernet.in/be/exp10/znrl0.html">http://vlabs.iitkgp.ernet.in/be/exp10/znrl0.html</a>
07.	TO DETERMINE CHARACTERISTICS OF P-N JUNCTION. F. B. Silicon Diode	<a href="http://vlabs.iitkgp.ernet.in/be/exp5/diodefrw.html">http://vlabs.iitkgp.ernet.in/be/exp5/diodefrw.html</a>
08.	TO DETERMINE CHARACTERISTICS OF P-N JUNCTION. F. B. Silicon Diode	<a href="http://vlabs.iitkgp.ernet.in/be/exp5/diodervrs.html">http://vlabs.iitkgp.ernet.in/be/exp5/diodervrs.html</a>
09.	TO DETERMINE CHARACTERISTICS OF P-N JUNCTION. F. B. Germanium Diode	<a href="http://vlabs.iitkgp.ernet.in/be/exp5/diodefrwge.html">http://vlabs.iitkgp.ernet.in/be/exp5/diodefrwge.html</a>
10.	TO STUDY ZENER REGULATED POWER SUPPLY	<a href="http://vlabs.iitkgp.ernet.in/be/exp10/znrli.html">http://vlabs.iitkgp.ernet.in/be/exp10/znrli.html</a>

### **B.Sc. SecondYear (Fourth Semester)**

Sr. No.	Name of Experiment	Link
01.	VERIFICATION OF STEFAN'S LAW OF RADIATION BY USING AN INCANDESCENT LAMP AS BLACK BODY RADIATOR.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=194&amp;sim=548&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=194&amp;sim=548&amp;cnt=1</a>
02.	TO STUDY TIME CONSTANT OF AN RC CIRCUIT EXPERIMENTALLY AND VERIFY THE RESULT THEORETICALLY	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=75&amp;sim=328&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=75&amp;sim=328&amp;cnt=1</a>
03.	TO DETERMINE FREQUENCY OF AC MAINS BY SONOMETER.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=366&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=366&amp;cnt=1</a>
04.	TO DETERMINE THE WAVELENGTH OF MONOCHROMATIC LIGHT BY NEWTON'S RINGS.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=189&amp;sim=1520&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=189&amp;sim=1520&amp;cnt=1</a>

<b>Sr. No.</b>	<b>Name of Experiment</b>	<b>Link</b>
05.	TO DETERMINE THE WAVELENGTH OF MONOCHROMATIC LIGHT BY PLANE DIFFRACTION GRATING	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=281&amp;sim=334&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=281&amp;sim=334&amp;cnt=1</a>
06.	TO DETERMINE THE WAVELENGTH OF LASER LIGHT.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=189&amp;sim=1106&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=189&amp;sim=1106&amp;cnt=1</a>
07.	DETERMINATION OF REFRACTIVE INDEX OF A PRISM BY SPECTROMETER	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=281&amp;sim=1513&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=281&amp;sim=1513&amp;cnt=1</a>

### **B.Sc. Third Year (Fifth Semester)**

<b>Sr. No.</b>	<b>Name of Experiment</b>	<b>Link</b>
01.	TO STUDY CHARACTERISTICS OF ZENER DIODE.	<a href="http://vlabs.iitkgp.ernet.in/be/exp10/zenercharac.html">http://vlabs.iitkgp.ernet.in/be/exp10/zenercharac.html</a>
02.	STUDY OF ASTABLE MULTIVIBRATOR.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=1167&amp;cnt=4">https://vlab.amrita.edu/?sub=1&amp;brch=201&amp;sim=1167&amp;cnt=4</a>

### **B.Sc. Third Year (Sixth Semester)**

<b>Sr. No.</b>	<b>Name of Experiment</b>	<b>Link</b>
01.	TO STUDY CRYSTAL MODELS AND IDENTIFICATION OF CRYSTAL PLANES	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=370&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=370&amp;cnt=1</a>
02.	TO STUDY ZENER REGULATED POWER SUPPLY	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=1207&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=1207&amp;cnt=1</a>
03.	TO STUDY THERMO EMF USING THERMOCOUPLE	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=194&amp;sim=351&amp;cnt=1">https://vlab.amrita.edu/?sub=1&amp;brch=194&amp;sim=351&amp;cnt=1</a>

<b>Sr. No.</b>	<b>Name of Experiment</b>	<b>Link</b>
04.	TO DETERMINE ACTIVATION ENERGY OF THERMISTER.	<a href="https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=1511&amp;cnt=4">https://vlab.amrita.edu/?sub=1&amp;brch=282&amp;sim=1511&amp;cnt=4</a>